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DEPARTMENT OF BUSINESS
AND ECONOMIC DEVELOPMENT

The State of Hawaii
DATA BOOK

1987

A Statistical Abstract

1959

November 1987

This report has been cataloged as follows:
Hawaii. Dept. of Business and Economic Development.
State of Hawaii data book; a statistical abstract. Honolulu: 1967-.

Annual.
None published for 1969.
1972 edition accompanied by supplement.
Continues same series under Department's earlier name, Hawaii.
Dept. of Planning & Economic Development and the Statistical abstract of Hawaii, 1962 by the Hawaii. Dept. of Planning & Research.

1. Hawaii-Statistics. I. Data Book.
HA4007.H356.1987

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This report was largely the work of the DBED Research and Economic Analysis Division, headed by Richard Y. P. Joun, Ph.D. It was compiled and edited by Robert C. Schmitt, State Statistician, with the assistance of Karen Yamashita, Bob Stanfield and Sharon Nishi. The camera-ready copy was typed and proofread by Irene S. Fujimori, Judy F. Noda, Helen T. Nagafuchi, and Charlotte N. L. Chow. Stewart A. Wastell, illustrator in the Office of State Planning, drew the maps. Printing arrangements were handled by the DBED's Information Office.

Copies of this report may be obtained for $5.00 each from the Information Office on the 7th floor of the Kamamalu Building, 250 South King Street, Honolulu, or ordered from out of State by sending $15.00 per copy (postpaid) to the DBED Information Office, P. O. Box 2359, Honolulu, Hawaii 96804.

ABOUT THIS BOOK

The State of Hawaii Data Book: A Statistical Abstract is the standard official summary of statistics on the social, economic, and political organization of our island state.

In addition to serving as a reference, it is a guide to other sources of statistics.

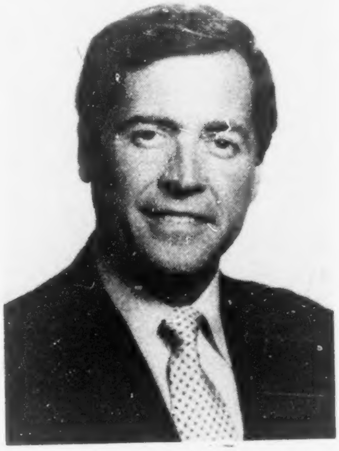
The Hawaii Data Book closely follows the organization and format of its counterpart, the Statistical Abstract of the United States, thus facilitating comparison of Hawaii and national data.

The Hawaii Data Book places the major emphasis on statewide data and less on counties, islands, urban places, and smaller areas. Source references for additional statistical detail are given in the introductions to the various sections and at the end of each table.

This is the 21st such abstract published by the State of Hawaii. Earlier editions appeared in 1962, 1967, 1968, and annually beginning in 1970. Most of them are now out of print, but copies can be found in many libraries in Hawaii.

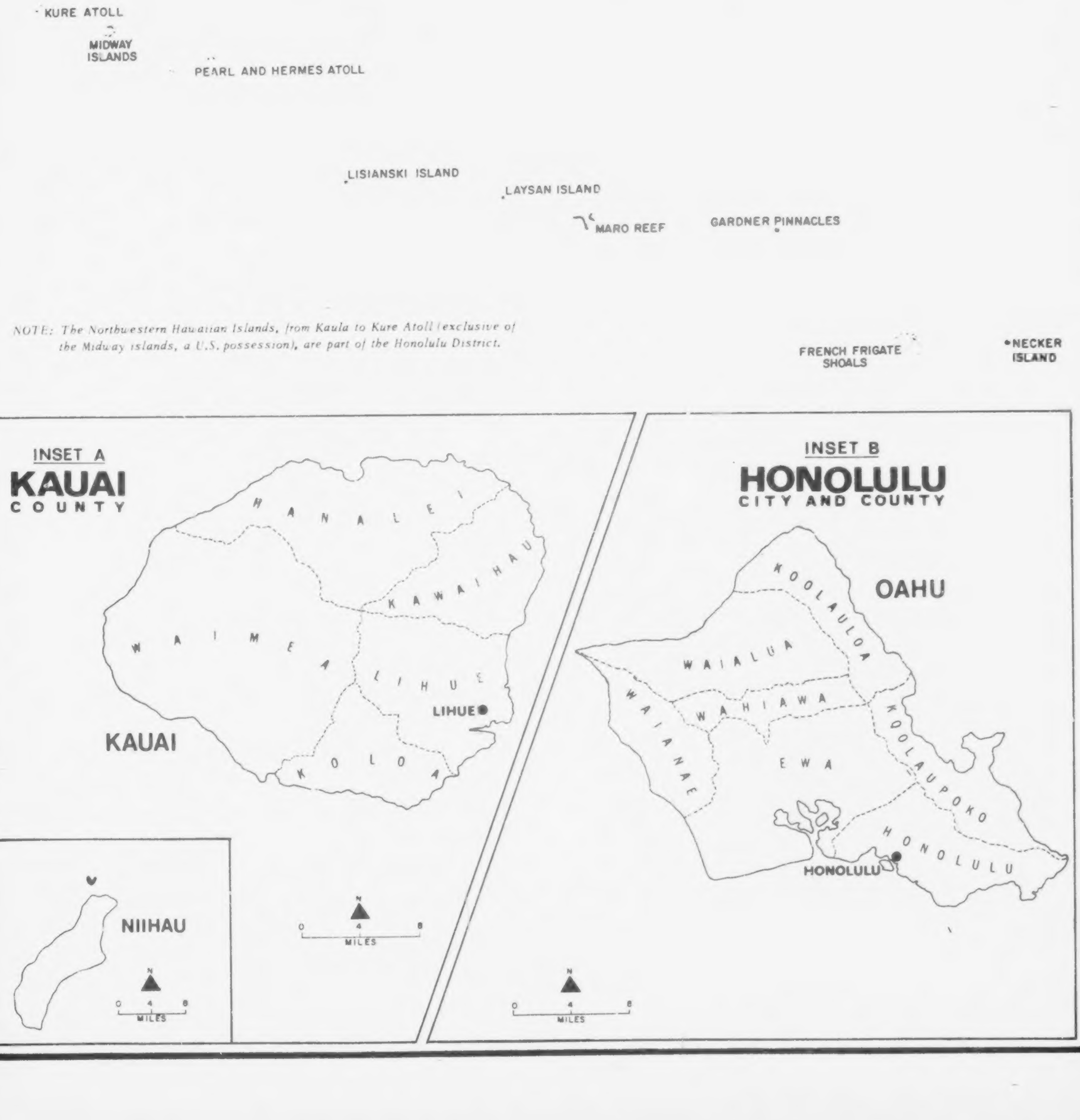
Many Federal, State, County, and private organizations cooperated with the DBED Research and Economic Analysis Division in the preparation of this book. They are credited in the source references that accompany the tables to which they contributed.

John Waihee
Governor of Hawaii



Roger A Ulveling
Director of Business
and Economic Development

STATE OF HAWAII
COUNTIES and DISTRICTS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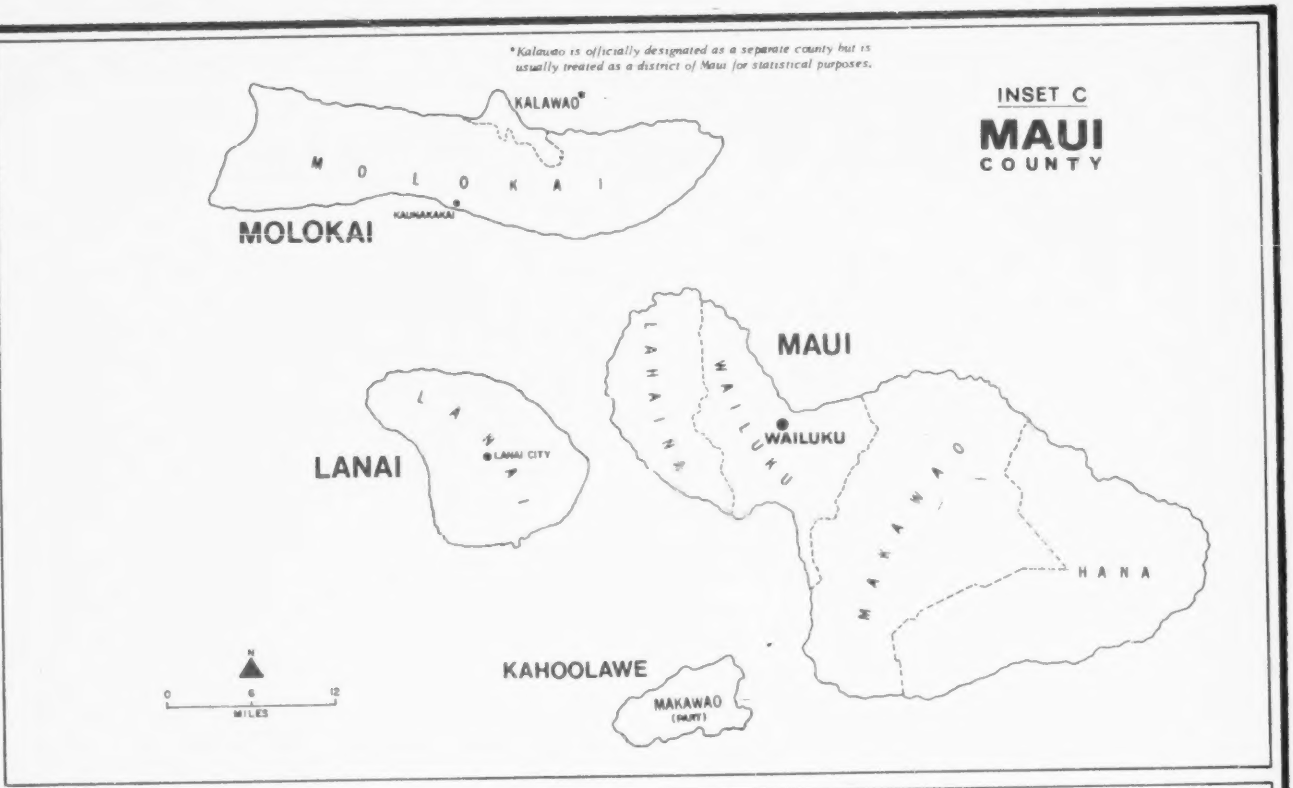
NOTE: *The Northwestern Hawaiian Islands, from Kaula to Kure Atoll (exclusive of the Midway islands, a U.S. possession), are part of the Honolulu District.*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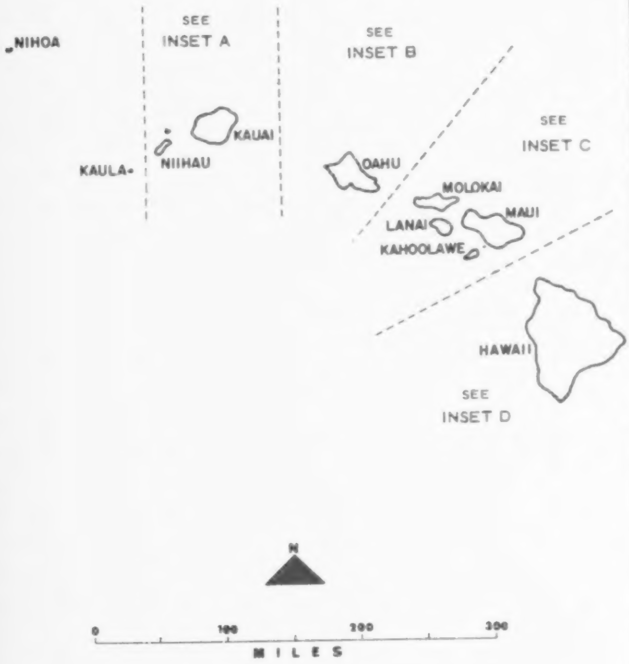
*Kalawao is officially designated as a separate county but is usually treated as a district of Maui for statistical purposes.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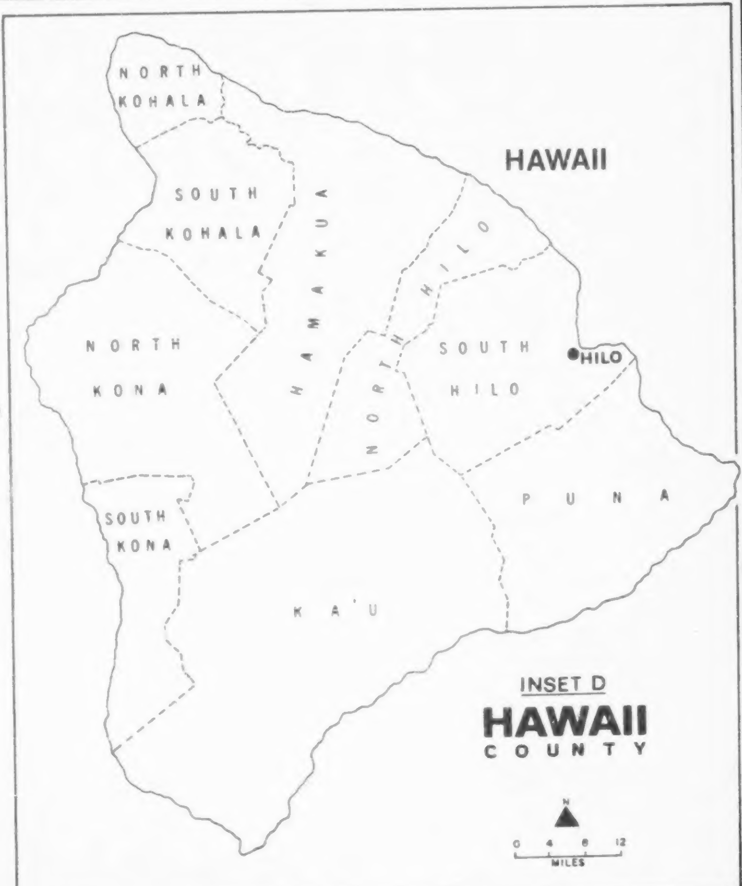
STATE OF HAWAII
DEPARTMENT OF BUSINESS
AND ECONOMIC DEVELOPMENT

1987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GUIDE TO TABULAR PRESENTATION

The tables in this report generally follow the principles of tabular presentation used by the U.S. Bureau of the Census in its annual publication, Statistical Abstract of the United States, and described in Bureau of the Census Manual of Tabular Presentation, published by the Bureau in 1950. These principles have been accepted by the Department of Business and Economic Development for use in its publications and recommended to all other State agencies for official use.

Headnotes immediately below table titles provide information important for correct interpretation or evaluation of the table as a whole or for a major segment of it.

Unit indicators ("In thousands," "In millions of dollars," etc.) are usually given as the first element of the headnote. In tables where several units are used, the unit indicators are generally given in the stub or in the column headings.

Footnotes below the bottom rule of tables give information relating to specific items, figures or symbols within the table.

Parallel vertical rules are used to the right of a total column to indicate --

(1) that the components which follow add to the total;
(2) in the case of derived figures, that the underlying data are additive to their total.

A dash (-) represents zero in references to absolute values. In rates and percentages, a zero (0) is used.

In many tables, details will not add to the totals shown because of rounding.

Geographic coverage should be understood as Statewide, unless otherwise indicated in the table title, headnote, boxhead, or stub. All annual statistics should be understood as referring to calendar years unless otherwise indicated.

UNITED STATES AND METRIC WEIGHTS AND MEASURES

U.S.			to	Metric	Metric			to	U.S.
Length									
Inches	x	25.4	=	millimeters	millimeters	x	0.039	=	inches
Feet	x	0.305	=	meters	meters	x	3.281	=	feet
Statute miles	x	1.609	=	kilometers	kilometers	x	0.621	=	miles
Area									
Sq. feet	x	0.093	=	sq. meters	sq. meters	x	10.764	=	sq. feet
Acres	x	0.405	=	hectares	hectares	x	2.471	=	acres
Sq. miles	x	2.589	=	sq. kilometers	sq. kilometers	x	0.386	=	sq. miles
Volume and capacity									
Cubic feet	x	0.028	=	cu. meters	cu. meters	x	35.315	=	cu. feet
Cubic yards	x	0.765	=	cu. meters	cu. meters	x	1.308	=	cu. yards
Fluid ounces	x	29.573	=	milliliters	milliliters	x	0.034	=	fluid ounces
Quarts (liq.)	x	0.946	=	liters	liters	x	1.057	=	quarts (liq.)
Gallons (liq.)	x	3.785	=	liters	liters	x	0.264	=	gallons (liq.)
Mass									
Ounces (avdp.)	x	28.350	=	grams	grams	x	0.035	=	ounces (avdp.)
Pounds (avdp.)	x	0.454	=	kilograms	kilograms	x	2.205	=	pounds (avdp.)
Hundredweight	x	45.359	=	kilograms	kilograms	x	0.022	=	hundredweight
Short tons	x	0.907	=	metric tons	metric tons	x	1.102	=	short tons

Miscellaneous conversions
1 statute mile = 5,280 ft. = 1,760 yards
1 acre = 43,560 sq. feet
1 square mile = 640 acres
1 short ton = 2,000 pounds

Continued on next page.

UNITED STATES AND METRIC WEIGHTS AND MEASURES -- Con.

Fahrenheit	to	Celsius	Celsius	to	Fahrenheit
Temperature					
100 °F		37.8 °C	40 °C		104.0 °F
90		32.2	35		95.0
80		26.7	30		86.0
70		21.1	25		77.0
60		15.6	20		68.0
50		10.0	15		59.0
40		4.4	10		50.0
30		-1.1	5		41.0
20		-6.7	0		32.0
10		-12.2	-5		23.0
			-10		14.0

Source: U.S. National Bureau of Standards, Special Publication 304a; Department of Geography, University of Hawaii, Atlas of Hawaii, 2nd edition (1983), pp. 218-219.

Section 1

POPULATION

This section presents statistics on the growth, geographic distribution, and composition of the population of Hawaii, and on the number and characteristics of migrants moving to and from the State.

Provisional estimates for 1986 indicate a resident population of 1,062,000. This total is well above the 1980 census count of 964,691 and the earlier counts of 423,000 in 1940, 154,000 in 1900, and 84,000 in 1850. These censuses and estimates include members of the armed forces stationed in Hawaii and their local dependents, a group making up 11.7 percent of the resident total when last surveyed. The 1986 de facto population -- which included 133,000 visitors present on an average day in that year but excluded 17,000 residents temporarily absent -- was 1,178,000. Almost three-fourths of the 1986 de facto total was on Oahu, giving that island a density of 1,470 persons per square mile. The population of the State is relatively young -- the median age in 1986 was 31 years -- and racially diversified. The major unmixed groups, based on a 1986 sample survey, were Caucasians (23 percent of the non-barracks, non-institutional population) and Japanese (also 23 percent). In addition, 31 percent were of mixed race, primarily part Hawaiian. There were approximately 336,000 households in the State in 1986, with an average household size of 3.04. Migration has been a major factor in the growth of the population: between 1980 and 1986, there was a net in-migration (excluding military personnel and dependents) of 36,000, accounting for 38 percent of the total civilian population growth during that time. Immigrant arrivals in fiscal 1986 exceeded 7,800, mostly from the Philippines.

The principal sources for these data are the decennial population censuses conducted by the U.S. Bureau of the Census, the estimates developed annually by the Hawaii State Department of Health and Department of Business and Economic Development in cooperation with the Bureau of the Census, the Hawaii Health Surveillance Program conducted regularly since 1969 by the Department of Health, the ongoing series on visitors present and residents absent maintained by the Hawaii Visitors Bureau, and the U.S. Immigration and Naturalization Service tabulations on immigration. The Department of Business and Economic Development summarizes these data in two series of reports, both issued annually: The Population of Hawaii and Hawaii's Migrants. Earlier figures on population and migration are given in Historical Statistics of Hawaii, Section 1 and 3. Comparable national statistics on population and migration appear in Section 1 of Statistical Abstract of the United States: 1987.

Table 1.-- POPULATION: FIRST SETTLEMENT TO 1987

[Unofficial estimates for 300-1823, missionary censuses for 1831-1832 and 1835-1836, Hawaiian government censuses for 1850-1896, U.S. government censuses for 1900-1940 and 1950-1980, and official intercensal and postcensal estimates for 1944 and 1981-1987. Estimates prior to 1823 are highly conjectural. Data through 1896 are on a de facto or unspecified basis; data for 1900 and later years are resident totals, and include armed forces stationed or homeported in Hawaii]

Date	Population	Percent change 1/
1st settlement 2/	100	...
600	1,000	(NA)
1100	20,000	0.6
1650	200,000	0.4
1778 3/	250,000	0.2
1800	180,000	-1.5
1823	140,000	-1.1
1831-1832	130,313	-0.8
1835-1836	108,579	-4.6
1850: Jan.	84,165	-1.8
1853: Dec. 26 ..	73,138	-3.5
1860: Dec. 24 ..	69,800	-0.7
1866: Dec. 7 ...	62,959	-1.7
1872: Dec. 27 ..	56,897	-1.7
1878: Dec. 27 ..	57,985	0.3
1884: Dec. 27 ..	80,578	5.5
1890: Dec. 28 ..	89,990	1.8
1896: Sept. 27 .	109,020	3.3
1900: June 1 ...	154,001	9.4
1910: Apr. 15 ..	191,874	2.2
1920: Jan. 1 ...	255,881	3.0
1930: Apr. 1 ...	368,300	3.6
1940: Apr. 1 ...	422,770	1.4
1944: July 1 ...	858,945	16.7
1950: Apr. 1 ...	499,794	-9.4
1960: Apr. 1 ...	632,772	2.4
1970: Apr. 1 ...	769,913	2.0
1980: Apr. 1 ...	964,691	2.3
1981: July 1 4/	980,131	1.3
1982: July 1 4/	997,454	1.8
1983: July 1 4/	1,018,334	2.1
1984: July 1 4/	1,035,585	1.7
1985: July 1 4/	1,050,822	1.5
1986: July 1 4/	1,064,732	1.3
1987: July 1 ...	1,082,502	1.7

NA Not available.

1/ Annual rate since the previous estimate or census, based on the formula for continuous compounding.

2/ Thought to have occurred between A.D. 300 and 600; see Kirch, p. 298.

3/ Other estimates of precontact population have ranged from 100,000 to more than 800,000, although most have fallen between 200,000 and 400,000.

4/ Revised from earlier estimates shown elsewhere in this section.

Source: Patrick Vinton Kirch, Feathered Gods and Fishhooks (University of Hawaii Press, 1985), pp. 286, 298, 302, and 304; Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), pp. 7, 8, and 10; Hawaii State Department of Business and Economic Development, Provisional Estimates of the Population of Hawaii, 1987 (forthcoming).

Table 2.-- RESIDENT POPULATION, BY MILITARY STATUS: 1970 TO 1986

[Excludes visitors present but includes residents temporarily absent]

Year	Total resident population	Armed forces 1/	Civilian population		
			All civilians	Military dependents 2/	Not military dependents
1970: April 1 .	769,913	55,142	714,771	61,858	652,913
July 1 ..	771,600	53,800	717,800	57,800	660,100
1971: July 1 ..	801,600	50,800	750,800	62,200	688,700
1972: July 1 ..	828,300	52,000	776,400	66,200	710,100
1973: July 1 ..	851,600	58,100	793,500	70,300	723,200
1974: July 1 ..	868,000	57,500	810,500	68,300	742,100
1975: July 1 ..	886,200	58,800	827,400	63,700	763,700
1976: July 1 ..	904,200	57,800	846,400	67,000	779,400
1977: July 1 ..	918,300	56,500	861,800	65,000	796,800
1978: July 1 ..	931,600	58,300	873,300	61,100	812,200
1979: July 1 ..	953,300	57,900	895,400	64,500	830,900
1980: April 1 .	964,691	57,056	907,635	64,023	843,612
July 1 ..	968,900	57,900	911,000	64,100	846,900
1981: July 1 ..	980,200	56,600	923,600	64,300	859,300
1982: July 1 ..	997,600	54,900	942,700	66,700	876,000
1983: July 1 ..	1,018,600	55,200	963,500	66,300	897,200
1984: July 1 ..	1,036,000	57,300	978,700	67,100	911,600
1985: July 1 ..	1,051,500	56,400	995,100	64,300	930,800
1986: July 1 3/	1,062,300	58,100	1,004,200	66,200	938,000

1/ These figures are the estimates developed by the U.S. Bureau of the Census for use in population estimation. They differ somewhat from corresponding figures from other sources.

2/ Dependents living in Hawaii, regardless of location of family head.

3/ Provisional estimates.

Source: Hawaii State Department of Planning and Economic Development, Intercensal Population Estimates for Hawaii, 1940-1980 (Statistical Report 172, February 1, 1985), table 1; Hawaii State Department of Business and Economic Development, The Population of Hawaii, 1980-1986 (Statistical Report 201, September 21, 1987), table 2.

Table 3.-- RESIDENT AND DE FACTO POPULATION, BY RESIDENCE STATUS: 1970 TO 1986

Year	Resident population 1/		De facto population 3/		De facto-resident ratio 4/
	Total	Temporarily absent 2/	Total	Visitors present 2/	
1970: April 1 ..	769,913	10,300	796,500	36,900	1,035
July 1 ...	771,600	10,000	798,600	36,900	1,035
1971: July 1 ...	801,600	9,400	833,100	40,900	1,039
1972: July 1 ...	828,300	8,600	869,800	50,100	1,050
1973: July 1 ...	851,600	9,800	901,300	59,600	1,058
1974: July 1 ...	868,000	7,800	923,700	63,500	1,064
1975: July 1 ...	886,200	9,000	943,500	66,300	1,065
1976: July 1 ...	904,200	9,400	970,300	75,500	1,073
1977: July 1 ...	918,300	9,000	992,300	83,000	1,081
1978: July 1 ...	931,600	9,300	1,014,300	92,000	1,089
1979: July 1 ...	953,300	9,300	1,042,700	98,700	1,094
1980: April 1 ..	964,691	9,600	1,052,700	97,600	1,091
July 1 ...	968,900	9,600	1,055,800	96,500	1,090
1981: July 1 ...	980,200	11,600	1,064,500	96,000	1,086
1982: July 1 ...	997,600	14,500	1,088,300	105,300	1,091
1983: July 1 ...	1,018,600	11,500	1,115,200	108,000	1,095
1984: July 1 ...	1,036,000	16,100	1,138,600	118,700	1,099
1985: July 1 ...	1,051,500	18,600	1,149,600	116,700	1,093
1986: July 1 5/	1,062,300	17,200	1,178,100	132,900	1,109

1/ The resident population is defined as the number of persons whose usual place of residence is in an area, regardless of physical location on the estimate or census date. It includes military personnel stationed or homeported in the area but excludes persons of local origin attending school or in military service outside the area.

2/ Averages for 12-month periods centered on the estimate or census dates.

3/ The de facto population is defined as the number of persons physically present in an area, regardless of military status or usual place of residence; it includes visitors present but excludes residents temporarily absent.

4/ De facto population per 1,000 resident population.

5/ Provisional estimate.

Source: Hawaii State Department of Planning and Economic Development, Intercensal Population Estimates for Hawaii, 1940-1980 (Statistical Report 172, February 1, 1985), table 2; Hawaii State Department of Business and Economic Development, The Population of Hawaii, 1980-1986 (Statistical Report 201, September 21, 1987), table 3.

Table 4.-- RESIDENT POPULATION OF ISLANDS: 1940 TO 1980

Island	1940	1950	1960	1970	1980
State of Hawaii	422,770	499,794	632,772	769,913	964,691
Hawaii	73,276	68,350	61,332	63,468	92,053
Kahoolawe	1	-	-	-	-
Maui 1/	46,919	40,103	35,717	38,691	62,823
Lanai	3,720	3,136	2,115	2,204	2,119
Molokai	5,340	5,280	5,023	5,261	6,049
Oahu 2/	257,664	353,006	500,394	630,497	762,534
Kauai	35,636	29,683	27,922	29,524	38,856
Niihau 3/	182	222	254	237	226
Northwestern Hawaiian Islands .	-	14	15	31	31
French Frigate Shoals	-	14	(NA)	(NA)	4
Laysan Island	-	-	(NA)	(NA)	5
Kure Atoll	-	-	(NA)	(NA)	22
Other islands 4/	-	-	(NA)	(NA)	-
Midway Islands 5/	437	416	2,356	2,220	453
Johnston Atoll 5/	69	46	156	1,007	327
Palmyra Atoll 6/	32	-	-	-	-

NA Not available.

1/ Including Molokini, uninhabited.

2/ Including Sand Island (56 in 1970, 60 in 1980), Mokauea Island (12 in 1970, 11 in 1980), Ford Island (798 in 1970, 522 in 1980), and Moku o Loe (uninhabited in 1970, 16 in 1980). The combined total for Sand Island and Mokauea Island in 1960 was 36. These offshore islands were not reported separately in other years.

3/ Including Lehua and Kaula, uninhabited.

4/ Nihoa, Necker Island, Gardner Pinnacles, Maro Reef, Lisianski Island, and Pearl and Hermes Atoll.

5/ Not part of the Territory or State of Hawaii.

6/ Part of the Territory of Hawaii but not the State of Hawaii.

Source: U.S. Bureau of the Census, decennial census bulletins on number of inhabitants, census tracts, and block statistics, 1940-1980.

Table 5.-- RESIDENT POPULATION, BY COUNTIES: 1970 TO 1986

[Based on place of usual residence. Includes armed forces stationed or homeported in Hawaii and residents temporarily absent; excludes visitors present]

Date		State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/
1970:	April 1 ...	769,913	630,528	63,468	29,761	46,156
	July 1	771,600	631,600	63,800	29,800	46,500
1971:	July 1	801,600	654,600	67,000	30,900	49,100
1972:	July 1	828,300	674,900	70,000	31,900	51,500
1973:	July 1	851,600	691,400	73,900	32,900	53,400
1974:	July 1	868,000	707,600	74,000	32,600	53,800
1975:	July 1	886,200	718,600	77,400	33,400	56,800
1976:	July 1	904,200	728,300	80,700	34,900	60,300
1977:	July 1	918,300	737,000	82,800	35,500	63,000
1978:	July 1	931,600	742,600	85,900	36,800	66,200
1979:	July 1	953,300	756,000	89,400	38,100	69,700
1980:	April 1 ...	964,691	762,565	92,053	39,082	70,991
	July 1	968,900	764,800	93,000	39,400	71,600
1981:	July 1	980,200	768,500	96,900	40,600	74,100
1982:	July 1	997,600	778,500	100,200	41,900	76,900
1983:	July 1	1,018,600	792,700	102,900	43,100	79,900
1984:	July 1	1,036,000	801,400	107,000	44,100	83,400
1985:	July 1	1,051,500	811,100	109,500	45,400	85,500
1986:	July 1 2/ .	1,062,300	816,700	111,800	46,300	87,500

1/ Including Kalawao County (Kalaupapa Settlement).

2/ Provisional estimates.

Source: Hawaii State Department of Planning and Economic Development, Intercensal Population Estimates for Hawaii, 1940-1980 (Statistical Report 172, February 1, 1985), table 3; Hawaii State Department of Business and Economic Development, The Population of Hawaii, 1980-1986 (Statistical Report 201, September 21, 1987), table 5.

Table 6.-- DE FACTO POPULATION, BY COUNTIES: 1970 TO 1986

[Includes all persons physically present in area, regardless of military status or usual place of residence. Includes visitors present but excludes residents temporarily absent, both calculated as averages for 12-month periods centered on estimate date]

Date	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/
1970: April 1 ...	796,500	650,700	65,700	31,800	48,400
July 1	798,600	650,200	66,600	32,300	49,400
1971: July 1	833,100	675,300	70,600	34,000	53,100
1972: July 1	869,800	702,200	74,500	35,800	57,200
1973: July 1	901,300	726,400	78,700	36,900	59,400
1974: July 1	923,700	746,500	79,500	36,800	60,900
1975: July 1	943,500	757,100	83,300	38,100	65,100
1976: July 1	970,300	772,900	86,800	40,100	70,500
1977: July 1	992,300	786,800	89,300	41,300	74,900
1978: July 1	1,014,300	797,200	93,400	43,600	80,100
1979: July 1	1,042,700	816,000	96,700	45,200	84,800
1980: April 1 ...	1,052,700	822,000	98,700	46,100	85,900
July 1	1,055,800	823,600	99,500	46,400	86,400
1981: July 1	1,064,500	825,600	102,500	47,500	89,000
1982: July 1	1,088,300	840,100	105,700	48,500	94,100
1983: July 1	1,115,200	850,000	110,600	50,700	103,800
1984: July 1	1,138,600	856,000	113,200	54,600	114,900
1985: July 1	1,149,600	861,600	116,100	56,200	115,700
1986: July 1 2/ .	1,178,100	877,300	120,000	60,500	120,200

1/ Including Kalawao County (Kalaupapa Settlement).

2/ Provisional estimates.

Source: Hawaii State Department of Planning and Economic Development, Intercensal Population Estimates for Hawaii, 1940-1980 (Statistical Report 172, February 1, 1985), table 10; Hawaii State Department of Business and Economic Development, The Population of Hawaii, 1980-1986 (Statistical Report 201, September 21, 1987), table 6.

Table 7.-- ESTIMATED POPULATION, RESIDENT AND DE FACTO, AND DE FACTO DENSITY, BY COUNTIES AND ISLANDS: JULY 1, 1986

[Provisional estimates]

County and island	Resident population 1/		De facto population 2/		
	Number, 1986	Percent change, 1980-86	Number, 1986	Percent change, 1980-86	Per square mile, 1986
State total	1,062,300	10.1	1,178,100	11.9	183.4
County:					
Hawaii	111,800	21.4	120,000	21.7	29.8
Maui	87,400	23.4	120,100	40.1	103.4
Kalawao	145	0.7	145	0.7	10.9
Honolulu	816,700	7.1	877,300	6.7	1,470.3
Kauai	46,300	18.5	60,500	31.1	97.6
Island:					
Hawaii	111,800	21.4	120,000	21.7	29.8
Maui	78,700	25.3	110,000	43.2	151.0
Kahoolawe	-	...	-	...	0
Lanai	2,200	3.7	2,200	3.6	15.7
Molokai	6,700	10.1	8,000	16.3	30.8
Oahu 3/	816,700	7.1	877,300	6.7	1,470.3
Kauai	46,100	18.7	60,300	31.3	109.7
Niihau	214	-5.3	214	-5.3	3.1

1/ For definition, see headnote to table 5.
2/ For definition, see headnote to table 6.
3/ Includes Kaula and the Northwestern Hawaiian Islands, except Midway.

Source: Hawaii State Department of Business and Economic Development, The Population of Hawaii, 1980-1986 (Statistical Report 201, September 21, 1987), tables 7, 8, and 10.

Table 8.-- RESIDENT POPULATION OF COUNTIES AND DISTRICTS: 1970, 1980, AND 1986

County and district	April 1, 1970	April 1, 1980	July 1, 1986	Percent change	
				1970 to 1980	1980 to 1986
State total	769,913	964,691	1,062,300	25.3	10.1
Hawaii County	63,468	92,053	111,800	45.0	21.4
Puna	5,154	11,751	18,400	128.0	56.6
South Hilo	33,915	42,278	45,000	24.7	6.4
North Hilo	1,881	1,679	1,500	-10.7	-10.4
Hamakua	4,648	5,128	5,300	10.3	3.6
North Kohala	3,326	3,249	3,500	-2.3	8.3
South Kohala	2,310	4,607	6,700	99.4	44.5
North Kona	4,832	13,748	19,700	184.5	43.1
South Kona	4,004	5,914	7,100	47.7	20.3
Ka'u	3,398	3,699	4,600	8.9	24.7
Maui County 1/	46,156	70,991	87,500	53.8	23.4
Hana	969	1,423	1,700	46.9	20.4
Makawao	9,979	19,005	23,100	90.4	21.4
Wailuku	22,219	32,111	40,200	44.5	25.1
Lahaina	5,524	10,284	13,700	86.2	33.6
Lanai	2,204	2,119	2,200	-3.9	3.7
Molokai	5,089	5,905	6,500	16.0	10.3
Kalawao	172	144	145	-16.3	0.7
City & Co. of Honolulu	630,528	762,565	816,700	20.9	7.1
Honolulu	324,871	365,048	379,600	12.4	4.0
Koolaupoko	92,219	109,373	114,900	18.6	5.1
Koolauloa	10,562	14,195	16,300	34.9	14.6
Waialua	9,171	9,849	10,900	7.4	10.9
Wahiawa	37,329	41,562	43,300	11.3	4.1
Waianae	24,077	31,487	33,500	30.8	6.5
Ewa	132,299	191,051	218,200	44.4	14.2
Kauai County	29,761	39,082	46,300	31.3	18.5
Hanalei	1,182	2,668	4,600	125.7	73.4
Kawaihau	7,393	10,497	12,700	42.0	20.8
Lihue	6,766	8,590	9,500	27.0	10.3
Koloa	6,851	8,734	10,800	27.5	24.1
Waimea	7,569	8,593	8,700	13.5	1.3

1/ Including Kalawao County.

Source: Hawaii State Department of Business and Economic Development, The Population of Hawaii, 1980-1986 (Statistical Report 201, September 21, 1987), table 9.

Table 9.-- RESIDENT POPULATION, OF ISLANDS, CITIES, TOWNS, AND VILLAGES: 1980

[This table presents data for the 101 "census designated places" defined by the Hawaii State Department of Planning and Economic Development, in cooperation with the Bureau of the Census, for the 1980 decennial census, under authority granted by Sec. 26-18, Hawaii Revised Statutes. Although described in the legislation as "cities, towns, and villages," none of these places is an independent municipality with separate governmental and taxing powers; the boundaries determined for these places are statistical rather than political]

Island and place 1/	Resident population
Hawaii	92,053
Captain Cook	2,008
Hakalau	250
Hawi	795
Hilo	35,269
Holualoa	1,243
Honokaa	1,936
Honomu	559
Kailua	4,751
Kainaliu	512
Kapaau	612
Keaau	775
Kealakekua	1,033
Kukuihaele	332
Laupahoehoe	500
Makapala	186
Mountain View	540
Naalehu	1,168
Ookala	401
Paauilo	755
Pahala	1,619
Pahoa	923
Papaaloa	264
Papaikou	1,567
Paukaa	544
Puako	257
Waimea	1,179
Wainaku	1,045
Remainder of island	31,030
Maui and Molokini	62,823
Haiku	619
Haliimaile	741
Hana	643
Honokahua	309
Kaanapali	541
Kahului	12,978
Kihei	5,644
Lahaina	6,095
Lower Paia	1,500
Makawao	2,900
Napili-Honokowai	2,446
Paia	193
Pauwela	468
Pukalani	3,950
Puunene	572
Waihee	413
Waikapu	698
Wailea	1,124
Wailuku	10,260
Remainder of island	10,729
Kahoolawe	-
Lanai	2,119
Lanai City	2,092
Remainder of island	27

Continued on next page.

Table 9.-- RESIDENT POPULATION, OF ISLANDS, CITIES, TOWNS, AND VILLAGES: 1980 -- Con.

Island and place 1/	Resident population	Island and place 1/	Resident population
Molokai	6,049	Oahu (con.):	
Kaunakakai	2,231	Nanakuli	8,185
Kualapuu	502	Pearl City	42,575
Maunaloa	633	Schofield Barracks	18,851
Remainder of island	2,683	Wahiawa	16,911
		Waialua	4,051
Oahu (including Northwestern Hawaiian Islands)	762,565	Waianae	7,941
Ahuimanu	6,238	Waimanalo	3,562
Aiea	32,879	Waimanalo Beach	4,161
Barbers Point Housing	1,373	Waipahu	29,139
Ewa	2,637	Waipio Acres	4,091
Ewa Beach	14,369	Whitmore Village	2,318
Haleiwa	2,412	Remainder of island	46,344
Hauula	2,997		
Heeia	5,432	Kauai	38,856
Hickam Housing	4,425	Anahola	915
Honolulu total	365,048	Eleele	580
Oahu part	365,017	Hanalei	483
Northwestern Hawaiian Islands	31	Hanamaulu	3,227
Iroquois Point	3,915	Hanapepe	1,417
Kaaawa	959	Kalaheo	2,500
Kahaluu	2,925	Kapaa	4,467
Kahuku	935	Kaumakani	888
Kailua	35,812	Kekaha	3,260
Kaneohe	29,919	Kilauea	895
Laie	4,643	Koloa	1,457
Maili	5,026	Lihue	4,000
Makaha	6,582	Poipu	685
Makakilo City	7,691	Princeville	500
Maunawili	5,239	Puhi	991
Mililani Town	21,365	Wailua	1,587
Mokapu	11,615	Waimea	1,569
		Remainder of island	9,435
		Niihau, Lehua and Kaula	226

1/ For boundaries of places, see Hawaii State Department of Planning and Economic Development, Statistical Boundaries of Cities, Towns and Villages As Approved Through December 31, 1979 (Report SB-A15, March 13, 1980).

Source: U.S. Bureau of the Census, 1980 Census of Population, PC80-1-A13, Hawaii (October 1981), table 4, and unpublished final counts for places under 300 based on enumeration district data supplied February 13, 1981.

Table 10.-- POPULATION RANKING OF HONOLULU: 1980 TO 1986

Comparison 1/	Areas ranked		Honolulu ranking		
	Year	Number	1980	1984	1986
Honolulu MSA: 2/					
Among all MSAs and CMSAs	1986	281	47	48	49
City and County of Honolulu: 3/					
Among all counties 4/	1986	3,138	43	40	41
Among all municipalities 5/	1986	182	12	11	11
Honolulu CDP: 6/					
Among all incorp. places and CDPs .	1986	182	36	37	38

1/ MSA, Metropolitan Statistical Area; CMSA, Consolidated MSA; CDP, Census Designated Place, that is, an unincorporated urban place.

2/ The Honolulu MSA consists of the City and County of Honolulu, comprising Oahu and the minor islets (except Midway) northwest of Niihau.

3/ The City and County of Honolulu consists of Oahu and the minor islets (except Midway) northwest of Niihau.

4/ The other counties in Hawaii ranked as follows in 1986: Hawaii, 402; Maui, 506; Kauai, 892.

5/ Areas ranked in 1980 included all boroughs, cities, towns, villages, and other, numbering 19,097 areas in all. In 1986, only places over 100,000 were ranked.

6/ The Honolulu CDP consists of Honolulu District, comprising the area between Red Hill and Makapuu Point, south and southwest of the crest of the Koolau Mountains, and the minor islets (except Midway) northwest of Niihau. In 1980, all 22,529 areas were ranked; in 1986, only places over 100,000.

Source: U.S. Bureau of the Census, press releases and printouts.

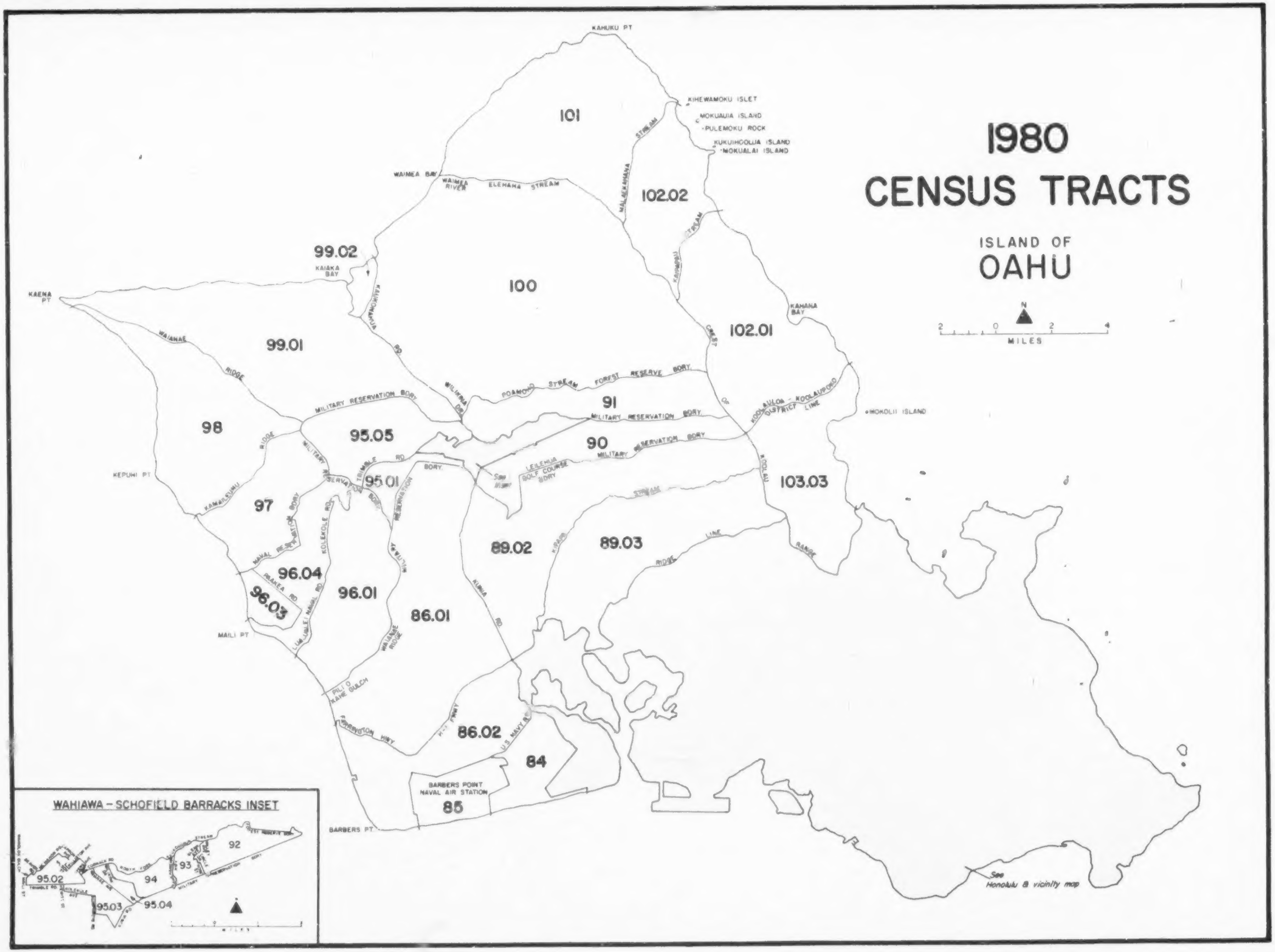
Table 11.-- POPULATION, 1980 AND 1985, AND HOUSEHOLDS, 1980, FOR OAHU NEIGHBORHOODS

Neighborhood (see maps on pp. 578-579)	Resident population			Households, 1980
	April 1, 1980	July 1, 1985	Percent increase	
Oahu total	762,534	811,096	6.7	230,214
1 Hawaii Kai	25,603	27,294	6.6	7,518
2 Kuliouou	14,172	15,181	7.1	4,316
3 Waialae-Kahala	11,474	11,400	-0.6	3,882
4 Kaimuki	19,603	19,665	0.3	6,314
5 Diamond Head/ Kapahulu	21,191	21,941	3.5	7,853
6 Palolo	14,110	13,894	-1.5	4,092
7 Manoa	22,605	23,444	3.7	6,536
8 McCully/Moiliili	26,644	26,549	-0.4	12,188
9 Waikiki	17,384	23,152	33.2	9,852
10 Makiki/Tantalus	28,695	28,533	-0.6	14,050
11 Ala Moana/Kakaako	10,032	11,063	10.3	5,505
12 Nuuanu/Punchbowl	16,166	16,736	3.5	5,361
13 Downtown	8,674	9,813	13.1	4,406
14 Liliha/Kapalama	21,068	23,126	9.8	6,429
15 Kalihi/Palama	40,144	39,859	-0.7	10,837
16 Kalihi Valley	17,613	17,696	0.5	3,885
17 Moanalua	12,948	12,951	0.0	3,400
18 Aliamanu/Salt Lake	31,199	35,272	13.1	9,290
19 Airport	28,436	28,262	-0.6	5,416
20 Aiea	30,084	33,647	11.8	8,925
21 Pearl City	42,577	46,487	9.2	11,140
22 Waipahu	33,927	43,420	28.0	8,261
23 Ewa	35,585	36,662	3.0	8,988
24 Waianae Coast	31,487	34,980	11.1	7,964
25 Mililani/Waipio	26,134	28,201	7.9	7,801
26 Wahiawa	41,562	42,896	3.2	10,271
27 North Shore	13,061	13,227	1.3	3,899
28 Koolauloa	10,983	11,977	9.1	2,687
29 Kahaluu	11,782	12,414	5.4	3,360
30 Kaneohe	35,553	38,608	8.6	9,698
31 Kailua/Mokapu	52,906	53,620	1.3	13,953
32 Waimanalo	9,132	9,127	0.0	2,137

Source: U.S. Bureau of the Census, *1980 Census of Population and Housing, Neighborhood Statistics Program, Hawaii*, PHC80-SP1-13 (1983); Honolulu Department of General Planning, records.

1980 CENSUS TRACTS

ISLAND OF OAHU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WAIMEA BAY
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ELEHAHA STREAM
MALAEKAHANA STREAM
KAIPAPAU STREAM
CREST OF KOOLAU
KOOLAULOA - KOOLAUPOKO DISTRICT LINE
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WILIKINA DR
POAMOHO STREAM FOREST RESERVE BDRY
MILITARY RESERVATION BDRY
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KEPUHI PT
KAMAILEUNU RIDGE
TRIMBLE RD
LEILEHUA GOLF COURSE BDRY
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LUALUALEI NAVAL RD
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See Honolulu & vicinity map
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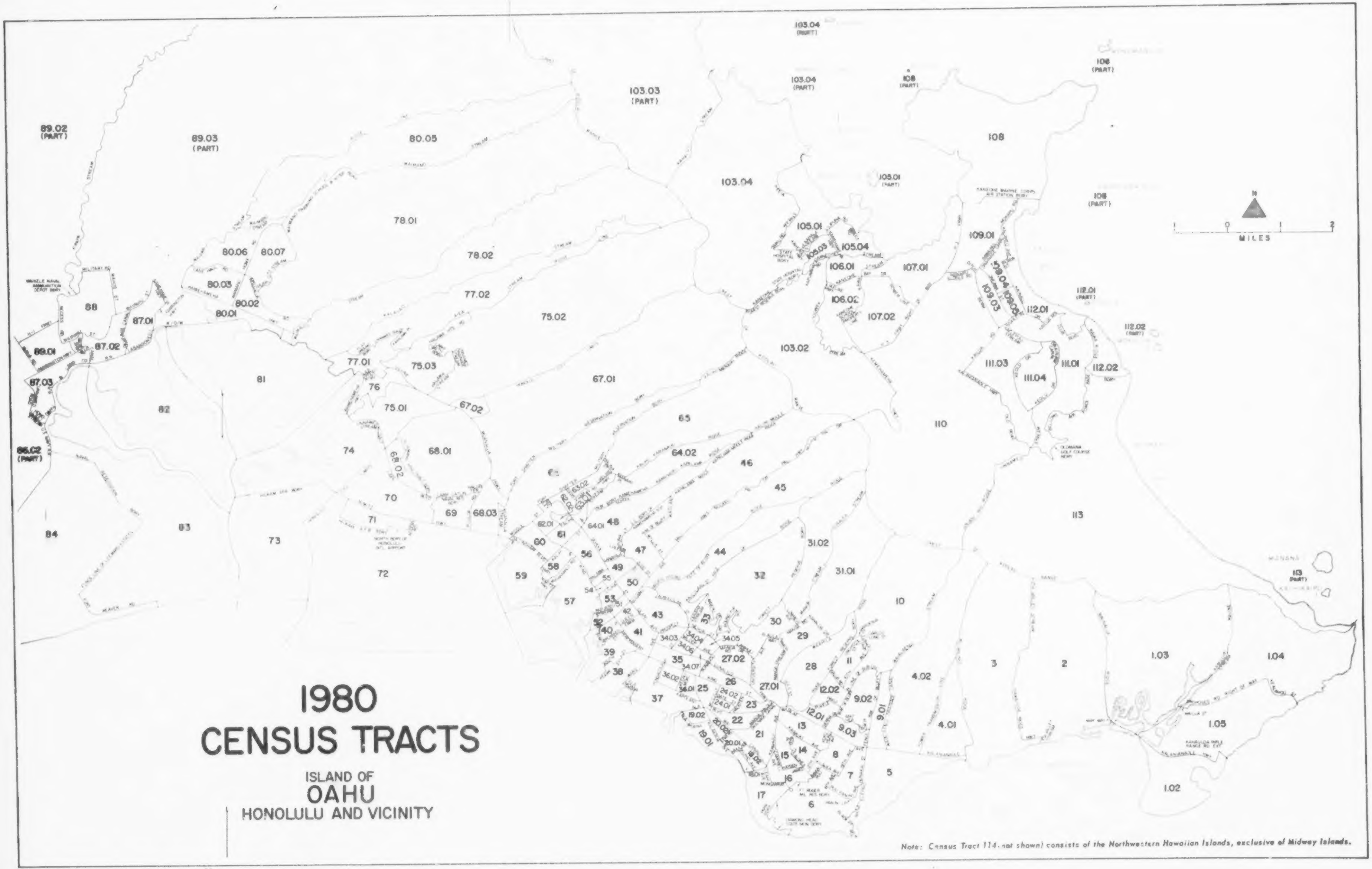
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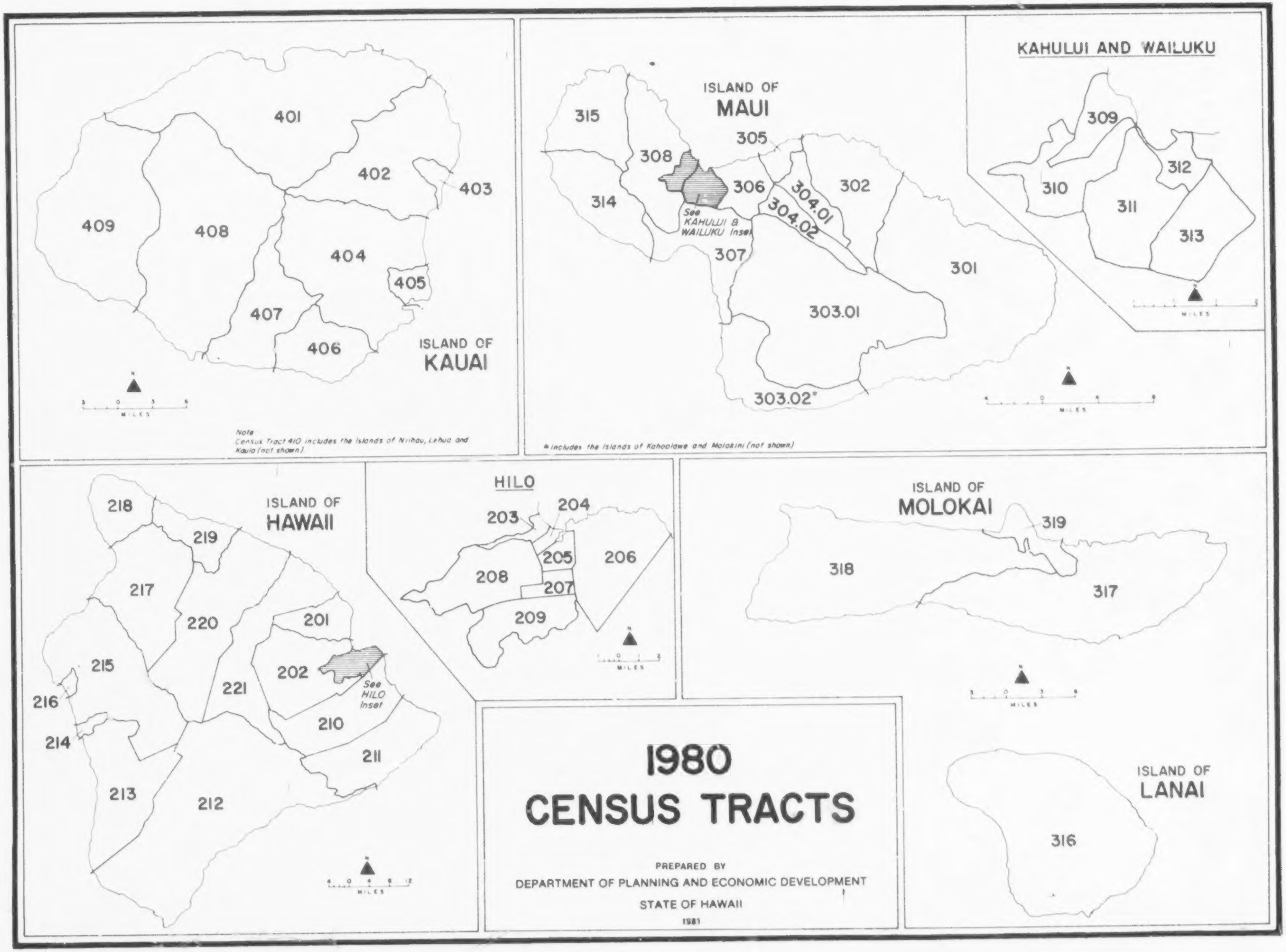
1980
CENSUS TRACTS

ISLAND OF
OAHU
HONOLULU AND VICINITY

Note: Census Tract 114 (not shown) consists of the Northwestern Hawaiian Islands, exclusive of Midway Islands.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MILES
KAHULUI AND WAILUKU
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MILES
ISLAND OF HAWAII
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See HILO Inset
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209
MILES
ISLAND OF MOLOKAI
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317
319
MILES
ISLAND OF LANAI
316

Note
Census Tract 410 includes the Islands of Niihau, Lehua and Kaula (not shown)

* includes the Islands of Kahoolawe and Molokini (not shown)

1980
CENSUS TRACTS

PREPARED BY
DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT
STATE OF HAWAII
1981

Table 12.-- RESIDENT POPULATION, 1970 TO 1985, AND AREA AND HOUSEHOLDS, 1980, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS

Census tract (1980 definitions) 1/	Land area (acres)		Resident population			House-holds, 1980
	Total	Net 2/	Apr. 1, 1970	Apr. 1, 1980	July 1, 1985	
County total	381,888	222,895	630,528	762,565	811,096	230,214
Honolulu District	57,039	33,403	324,871	365,048	382,561	127,139
1.02	778	776	1,915	2,067	2,041	599
1.03	2,989	1,439	3,243	10,784	11,804	3,462
1.04 (1.01 pt.) ...	2,264	1,213	1,834	7,202	7,903	1,947
1.05 (1.01 pt.) ...	1,386	1,276	5,580	5,550	5,546	1,510
2	2,711	626	5,123	4,970	5,762	1,485
3	2,301	512	6,485	5,518	5,448	1,696
4.01	582	360	1,571	2,734	2,871	804
4.02	1,618	282	2,898	3,438	3,686	1,064
5	698	694	5,253	4,711	4,597	1,668
6	790	783	2,025	1,654	1,630	556
7	235	235	3,794	3,350	3,311	1,022
8	221	221	4,599	4,137	4,110	1,288
9.01	219	106	2,773	2,621	2,588	925
9.02	332	294	4,392	3,912	3,938	1,324
9.03	153	153	3,514	2,932	2,926	1,005
10	2,202	352	3,650	3,213	3,239	924
11	190	167	4,586	4,077	4,057	1,025
12.01	138	133	3,657	3,227	3,295	1,052
12.02	158	146	4,231	3,593	3,609	1,091
13	224	224	5,146	4,642	4,604	1,569
14	119	119	2,990	2,797	2,762	846
15	138	138	4,345	3,857	3,824	1,267
16	148	148	4,783	4,617	4,565	1,475
17	348	348	2,559	2,492	2,730	1,358
18.01	40	40	1,286	1,140	1,384	668
18.02	69	69	2,774	3,259	5,635	1,733
19.01	316	311	1,111	1,412	1,958	868
19.02	55	55	3,368	5,413	6,611	3,064
20.01	73	73	2,186	2,560	4,354	1,445
20.02	65	65	2,399	3,600	3,210	2,074
21	279	279	3,347	3,619	3,582	1,558
22	127	127	3,796	6,782	6,687	3,148
23	90	90	4,195	5,073	4,995	2,410
24.01	40	39	3,060	2,912	2,960	1,293
24.02	63	63	2,818	3,042	3,180	1,395
25	104	101	4,242	4,016	3,926	1,885

Continued on next page.

Table 12.-- RESIDENT POPULATION, 1970 TO 1985, AND AREA AND HOUSEHOLDS, 1980, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS -- Con.

Census tract (1980 definitions) 1/	Land area (acres)		Resident population			Households, 1980
	Total	Net 2/	Apr. 1, 1970	Apr. 1, 1980	July 1, 1985	
Honolulu District, con.						
26	167	167	5,163	4,819	4,800	2,057
27.01	366	364	3,675	5,291	5,311	693
27.02	253	253	5,039	5,344	5,345	2,111
28	582	327	4,316	3,679	4,333	1,202
29	280	172	1,591	1,583	1,598	448
30	380	351	4,966	4,491	4,600	1,611
31.01	1,302	433	4,403	3,923	4,020	1,150
31.02	989	322	4,030	3,716	3,769	1,106
32	1,425	352	1,218	1,132	1,135	351
33	148	141	1,145	1,069	1,083	310
34.03	85	84	4,267	5,074	5,082	2,564
34.04 (34.01 pt.) ..	65	64	3,114	4,511	4,608	2,203
34.05 (34.01 pt.) ..	42	42	2,771	3,014	3,002	1,689
34.06 (34.02 pt.) ..	60	60	4,010	5,238	5,313	2,553
34.07 (34.02 pt.) ..	29	29	751	1,033	1,051	618
35	181	181	4,308	4,399	4,389	2,198
36.01	86	86	2,916	4,326	5,346	2,590
36.02	90	90	2,654	2,661	2,791	1,246
37	450	450	1,349	2,477	2,357	1,401
38	287	287	523	387	332	155
38.99 3/	...	...	314	-	0	-
39	291	291	263	115	68	73
39.99 3/	...	...	134	108	108	-
40	70	70	100	820	1,066	498
41	165	165	4,097	4,320	4,313	2,240
42	63	63	1,162	2,637	2,604	1,524
43	323	275	5,628	5,339	5,422	2,163
44	867	243	6,142	5,274	5,273	1,486
45	1,955	437	4,780	5,042	5,506	1,800
46	1,751	458	4,377	3,928	3,906	1,187
47	343	342	5,500	4,893	4,970	1,495
48	831	510	6,608	6,146	7,716	1,720
49	99	98	3,292	3,165	3,116	982
50	130	130	3,973	4,075	4,589	1,368
51	46	46	-	1,611	2,408	759
52	41	41	1,405	858	1,103	248
53	84	84	482	4,529	4,475	1,506
54	22	22	1,862	1,718	1,696	409
55	53	53	1,975	2,106	2,095	636

Continued on next page.

Table 12.-- RESIDENT POPULATION, 1970 TO 1985, AND AREA AND HOUSEHOLDS, 1980, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS -- Con.

Census tract (1980 definitions) 1/	Land area (acres)		Resident population			Households, 1980
	Total	Net 2/	Apr. 1, 1970	Apr. 1, 1980	July 1, 1985	
Honolulu District, con.						
56	227	226	5,768	5,794	6,489	1,550
57	1,123	1,119	2,615	1,556	1,409	752
57.99 3/	...	...	134	592	592	-
58	123	123	3,163	3,524	3,456	1,030
59	566	565	4,388	3,854	3,662	1,055
59.99 3/	...	...	61	21	21	-
60	176	171	6,711	5,663	5,410	1,352
61	113	111	3,262	3,381	3,314	773
62.01	130	129	4,295	4,741	4,609	1,165
62.02	24	21	2,523	2,665	2,631	609
63.01	171	167	3,713	3,315	3,270	732
63.02	123	109	3,083	2,945	2,974	549
64.01	46	45	1,400	1,737	1,798	348
64.02	646	147	5,280	5,579	5,541	1,321
65	2,311	311	4,011	4,037	4,114	935
66	1,418	1,418	3,424	2,716	2,675	696
67.01	4,726	1,253	7,502	7,477	7,514	1,851
67.02	105	105	2,317	2,755	2,720	853
68.01	1,273	1,102	2,968	20,689	23,970	6,568
68.02	163	163	4,532	4,890	4,982	1,176
68.03	277	261	-	-	0	-
69	280	280	3,694	3,109	3,070	913
70	704	704	4,899	4,251	4,024	1,294
71	227	227	1,402	2,588	2,667	609
72	3,446	3,028	3,864	1,364	1,592	155
114	1,978	1,978	31	31	31	-
Rest of county	324,843	189,492	305,657	397,517	428,535	103,075
73	1,661	1,597	7,530	6,393	6,145	1,732
73.99 3/	...	...	3,034	-	0	-
74	1,313	1,305	4,016	3,138	3,172	713
74.99 3/	...	...	5,070	7,593	7,593	-
75.01	563	537	4,946	7,467	8,694	2,005
75.02	5,070	1,013	1,496	444	443	16
75.03	559	458	4,982	4,865	5,042	1,306
76	212	212	2,934	1,556	1,593	413
77.01	309	304	4,880	4,645	4,665	1,210
77.02	1,420	776	4,752	4,838	4,837	1,421
78.01 (78 pt. and 79)	6,703	2,068	5,559	12,813	14,996	3,527
78.02 (78 pt.)	3,219	757	895	11,367	14,382	4,051

Continued on next page.

Table 12.-- RESIDENT POPULATION, 1970 TO 1985, AND AREA AND HOUSEHOLDS, 1980, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS -- Con.

Census tract (1980 definitions) 1/	Land area (acres)		Resident population			Households, 1980
	Total	Net 2/	Apr. 1, 1970	Apr. 1, 1980	July 1, 1985	
Rest of county, con.						
80.01	225	224	1,268	1,498	1,463	477
80.02	263	249	3,347	2,987	2,919	826
80.03	360	360	2,811	3,377	5,169	895
80.05	3,100	443	7,846	7,465	7,394	1,839
80.06 (80.04 pt.) ..	436	401	4,349	5,906	5,862	1,427
80.07 (80.04 pt.) ..	372	365	4,708	6,473	6,395	1,591
81	1,141	1,057	3,167	2,580	2,548	607
81.99 3/	...	...	368	-	0	-
82	1,858	1,855	-	-	0	-
83	3,182	3,181	4,759	12,437	12,272	2,861
84	4,194	4,194	7,801	7,643	7,596	2,026
85	3,588	3,588	3,187	2,942	2,912	772
86.01	21,413	14,594	4,226	8,559	9,380	2,337
86.02	9,832	9,826	4,114	4,653	5,160	1,143
86.99 3/	...	...	-	21	21	-
87.01	342	334	5,958	7,284	7,209	1,518
87.02	262	253	4,509	3,854	3,764	911
87.03	421	416	2,238	3,468	3,462	1,116
88	688	663	3,429	4,484	5,189	992
89.01	330	324	7,328	7,861	7,801	1,984
89.02	17,739	12,433	4,420	25,874	31,904	7,764
89.03	14,467	6,515	2,369	6,566	12,447	1,626
90	6,609	6,609	2,783	2,413	2,385	672
91	8,224	3,169	3,410	3,339	3,943	798
92	715	645	6,637	7,420	7,657	2,195
93	298	246	4,875	4,451	4,425	1,429
94	425	278	6,048	5,040	5,008	1,743
95.01	1,862	1,396	3,762	3,587	3,684	887
95.02	321	321	4,901	5,326	5,133	1,466
95.03	443	443	2,566	6,076	6,075	1
95.04	207	207	1,495	955	1,050	249
95.05	6,212	6,212	858	2,955	2,872	831
96.01	10,010	7,833	4,024	5,159	5,628	1,111
96.03 (96.02 pt.) ..	1,730	1,694	5,100	5,711	6,020	1,439
96.04 (96.02 pt.) ..	5,034	4,913	4,530	4,165	4,102	975
97	7,603	4,793	6,020	10,524	11,278	2,697
98	13,753	4,405	4,403	5,928	7,874	1,742
99.01	22,302	13,543	4,529	5,350	5,473	1,613
99.02	998	980	2,817	2,620	2,740	753
100	45,977	18,259	1,825	1,879	1,872	478
101	19,229	10,222	3,497	4,491	5,297	1,496

Continued on next page.

Table 12.-- RESIDENT POPULATION, 1970 TO 1985, AND AREA AND HOUSEHOLDS, 1980, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS -- Con.

Census tract (1980 definitions) 1/	Land area (acres)		Resident population			Households, 1980
	Total	Net 2/	Apr. 1, 1970	Apr. 1, 1980	July 1, 1985	
Rest of county, con.						
102.01	16,219	4,112	3,255	3,952	4,001	1,166
102.02	8,289	3,499	3,810	5,752	5,820	1,080
103.02	2,529	1,285	3,338	3,232	3,370	817
103.03 (103.01 pt.) .	10,356	3,936	3,413	3,593	3,717	1,013
103.04 (103.01 pt. and 104)	4,575	2,439	4,776	9,784	10,925	2,737
105.01	1,028	895	5,501	8,712	9,448	2,501
105.03 (105.02 pt.) .	145	137	2,033	1,804	1,770	510
105.04 (105.02 pt.) .	308	302	4,956	4,794	5,089	1,236
106.01	283	247	3,227	3,019	3,082	835
106.02	491	482	5,105	4,994	5,157	1,374
107.01	749	495	2,586	3,680	3,821	1,128
107.02	1,021	566	3,500	3,723	4,196	907
108	3,027	2,752	7,860	11,578	11,494	1,854
108.99 3/	...	...	-	37	37	-
109.01	826	426	3,374	3,161	3,148	924
109.03 (109.02 pt.) .	222	221	4,500	4,158	4,213	1,263
109.04 (109.02 pt.) .	232	232	3,874	3,506	3,538	999
109.05 (109.02 pt.) .	136	136	2,874	2,536	2,547	794
110	6,809	2,941	3,957	4,218	4,733	1,115
111.01	1,112	1,012	6,352	7,966	8,546	2,384
111.03 (111.02 pt.) .	807	659	2,145	3,872	3,874	1,017
111.04 (111.02 pt.) .	484	360	4,858	5,370	5,347	1,462
112.01	575	560	5,377	4,841	4,920	1,498
112.02	327	203	1,832	1,663	1,677	643
113	7,100	5,125	6,777	9,132	9,120	2,137

NA Not available.

1/ Most tract boundaries either remained unchanged between 1970 and 1980 or underwent only minor changes. In cases where the 1970 tracts were split or merged for 1980, however, the 1980 tract designation is followed in parentheses by the 1970 designations.

2/ Total land area less forest reserve and undevelopable open space.

3/ The ".99" tracts consist of vessels anchored off the indicated tract

Source: U.S. Bureau of the Census, 1970 Census of Population and Housin Census Tracts, Honolulu SMSA, PHC(1)-88 (1972), and Census of Population and Housing, 1980: Summary-Tape File 1A, Hawaii (1981); City and County of Honolulu, Department of General Planning, unpublished estimates of census tra areas and populations, 1985. The 1970 population of tracts split between 197 and 1980 was approximated from 1970 data for blocks and enumeration districts

Table 13.-- RESIDENT POPULATION, 1970 AND 1980, AND AREA AND HOUSEHOLDS, 1980, FOR HAWAII, MAUI, AND KAUAI COUNTIES, BY ISLANDS AND CENSUS TRACTS

County, island and census tract 1/	Land area (acres)	Resident population		Households, 1980
		1970	1980	
Total, 4 counties ...	3,730,240	139,385	202,126	63,838
Hawaii County	2,581,888	63,468	92,053	29,237
201	74,828	5,503	5,261	1,558
202	154,950	2,059	1,748	502
203	908	3,435	4,292	1,744
204	710	3,531	4,003	1,342
205	1,672	4,604	5,672	1,826
205.99 2/	...	83	25	-
206	12,808	2,989	3,702	1,132
207	2,022	5,231	7,690	2,285
208	10,894	4,865	7,017	2,047
209	7,200	1,615	2,868	815
210	147,610	3,802	7,055	2,381
211	129,318	1,352	4,696	1,450
212	636,742	3,398	3,699	1,108
213	233,112	1,563	3,560	1,107
214	18,489	2,441	2,354	746
215	273,559	2,589	7,610	2,525
216	4,840	2,243	6,138	2,077
217	205,937	2,310	4,607	1,483
218	85,189	3,326	3,249	1,022
219	74,636	2,829	3,287	1,042
220	262,985	1,819	1,841	535
221	243,479	1,881	1,679	510
Maui and Kalawao Counties	751,936	46,156	70,991	22,581
Maui and Kahoolawe	495,104	38,691	62,823	20,162
301	148,941	969	1,423	435
302	38,548	2,067	3,567	1,096
303.01 (303 pt.)	92,037	2,024	3,850	1,317
303.02 (303 pt.)	45,442	100	1,227	474
304.01 (304 pt.)	10,430	2,494	4,366	1,341
304.02 (304 pt.)	10,892	1,629	4,285	1,254
305	4,931	1,665	1,710	553
306	12,743	781	220	92
307	22,348	1,636	6,020	2,103
307.99 2/	...	-	15	-
308	39,252	1,299	1,584	461
309	435	4,537	6,542	2,041
310	782	4,547	4,132	1,489

Continued on next page.

Table 13.-- RESIDENT POPULATION, 1970 AND 1980, AND AREA AND HOUSEHOLDS, 1980, FOR HAWAII, MAUI, AND KAUAI COUNTIES, BY ISLANDS AND CENSUS TRACTS -- Con.

County, island and census tract 1/	Land area (acres)	Resident population		Households, 1980
		1970	1980	
Maui and Kalawao, con.				
Maui and Kahoolawe, con.				
311	3,290	5,505	10,424	2,967
312	808	2,782	2,602	893
313	2,689	1,132	572	174
314	28,704	4,171	6,654	2,115
315	32,832	1,353	3,630	1,357
Lanai	89,856	2,204	2,119	650
316	89,856	2,204	2,119	650
Molokai	166,976	5,261	6,049	1,769
317	83,328	2,574	3,574	1,044
318	75,136	2,515	2,331	654
319 (Kalawao County) .	8,512	172	144	71
Kauai County	396,416	29,761	39,082	12,020
Kauai	351,616	29,524	38,856	11,979
401	80,166	1,182	2,668	902
402	42,294	3,599	6,030	1,829
403	2,179	3,794	4,467	1,425
404	50,368	3,642	4,590	1,181
405	3,909	3,124	4,000	1,389
406	15,123	3,141	3,879	1,240
407	23,518	3,660	4,855	1,523
407.99 2/	...	50	-	-
408	77,347	3,173	3,111	947
409	56,712	4,159	5,256	1,543
Niihau and Lehua	44,800	237	226	41
410	44,800	237	226	41

1/ Most tract boundaries either remained unchanged between 1970 and 1980 or underwent only minor changes. In cases where the 1970 tracts were split or merged for 1980, however, the 1980 tract designation is followed in parentheses by the 1970 designations.

2/ The ".99" census tracts consist of vessels anchored off the indicated tract; for example, persons living aboard ships in Maalaea Bay, adjacent to tract 307, are assigned to tract 307.99.

Source: U.S. Bureau of the Census, Census of Population and Housing, 1980: Summary Tape File 1A, Hawaii (1981), 1970 Census of Population and Housing, Census Tracts, Honolulu SMSA, PHC(1)-88 (1972), Areas of Hawaii: 1960, GE-20, No. 13 (October 1967), p. 5, and revised acreage data for counties and islands supplied May 5, 1983. The 1970 population of census tracts split between 1970 and 1980 was approximated from 1970 data for blocks and enumeration districts.

Table 14.-- RESIDENT AND DE FACTO POPULATION AND EMPLOYED PERSONS, FOR WAIKIKI: 1920 TO 1986

[For definitions of resident and de facto population, see table 3, footnotes 1 and 3. Waikiki is the area bounded by the Ala Wai Canal, Kapahulu Ave., and the Pacific Ocean]

Year	Resident population		De facto population		Employed persons 2/	
	Total	Temporarily absent 1/	Total	Visitors present 1/	Living in Waikiki	Working in Waikiki
1920	3,471	(NA)	(NA)	(NA)	(NA)	(NA)
1930	4,221	(NA)	(NA)	(NA)	(NA)	(NA)
1940	7,350	(NA)	(NA)	(NA)	(NA)	(NA)
1950	11,309	21	13,036	1,748	6,228	(NA)
1960	11,075	36	18,753	7,714	6,327	(NA)
1970	13,124	176	34,874	21,926	7,866	(NA)
1980	17,384	174	63,710	46,500	9,593	30,011
1984	22,190	344	79,270	57,424	(NA)	(NA)
1986	(NA)	(NA)	(NA)	63,000	(NA)	(NA)
DENSITY 3/						
1980	28.4	0.3	103.9	75.9	15.6	49.0
1984	36.2	0.6	129.2	93.7	(NA)	(NA)
1986	(NA)	(NA)	(NA)	102.8	(NA)	(NA)

NA Not available.
1/ Annual averages. Estimated.
2/ Includes armed forces.
3/ Per acre. Based on net land area of 613 acres.

Source: Resident population from Hawaii State Census Statistical Areas Committee, Report CTC-55 (Dec. 15, 1983), and Data Book 1986, table 11. Visitors present and residents absent estimated by Hawaii State Data Center from Hawaii Visitors Bureau survey data. Employment from U.S. Bureau of the Census, census tract bulletins (1950-1980), and Data Book 1986, table 367.

Table 15.-- CENTERS OF POPULATION, FOR THE STATE, 1960 TO 1980, AND COUNTIES, 1970 AND 1980

["Center of population" is that point at which an imaginary flat, weightless, and rigid map of an area would balance if weights of identical value were placed on it so that each weight represented the location of one resident on the date of the census]

Geographic area	North latitude	West longitude	Approximate location
State:			
1960	21°12'50"	157°37'03"	7 mi. SE of Makapuu Point
1970	21°13'38"	157°39'20"	3.5 mi. SE of Blow Hole
1980	21.2009°	157.6129°	7 mi. SE of Koko Head
Geographic center 1/	20°15'	156°20'	24 mi. S of Kanahena Pt.
Hawaii County:			
1970	19°43'13"	155°19'22"	15 mi. W of Hilo
1980	19.7015°	155.3667°	17 mi. W of Hilo
Maui County:			
1970 2/	20°53'59"	156°33'06"	1 mi. NE of Iao Needle
1980	20.8809°	156.5184°	1 mi. SW of Wailuku PO
Kalawao County:			
1970 2/	...	...	...
1980	21.1930°	156.9766°	Kalaupapa
Honolulu County:			
1970	21°21'55"	157°53'18"	Tripler Hospital
1980	21.3704°	157.8946°	1457 Ala Aolani St.
Kauai County:			
1970	22°01'34"	159°28'19"	3.5 mi. SE of Kawaikini
1980	22.0065°	159.4659°	3.5 mi. N of Knudsen Gap

1/ Based on land area rather than population.

2/ Kalawao included with Maui in 1970.

Source: U.S. Bureau of the Census, Centers of Population for States and Counties, 1950, 1960, and 1970 (December 1974), pp. 3, 66, and Hawaii map, and 1980 measurements provided May 8, 1984; U.S. Department of Commerce, News Release NOS 73-80 (October 10, 1973). Cited in Hawaii State Census Statistical Areas Committee, Centers of Population, 1960-1980 (Report CTC-59, August 17, 1984).

Table 16.-- POPULATION AND LAND AREA, URBAN AND RURAL, BY COUNTIES: 1970 AND 1980

[Urban places are those with populations of 2,500 or more. Places with populations less than 2,500 and open country are classified as rural. For 1960 statistics, see Data Book 1984, tables 15 and 16]

County and type of area	Land area (square miles)		Resident population	
	1970	1980	1970	1980
State total	6,425.4	6,425	769,913	964,691
Urban	226.8	278	643,222	834,592
Rural	6,198.6	6,147	126,691	130,099
City and Co. of Honolulu	595.7	596	630,528	762,565
Honolulu Urbanized Area 1/	115.0	135	443,749	582,463
Kailua-Kaneohe Urbanized Area 2/	(3/)	34	(3/)	105,712
Other urban	37.3	15	146,225	47,116
Rural	443.4	412	40,554	27,274
Hawaii County	4,037.0	4,034	63,468	92,053
Urban	56.1	61	26,353	40,020
Rural	3,980.9	3,973	37,115	52,033
Kauai County	619.1	620	29,761	39,082
Urban	10.2	12	6,918	17,454
Rural	608.9	608	22,843	21,628
Maui and Kalawao Counties	1,173.6	1,175	46,156	70,991
Urban	8.2	21	19,977	41,827
Rural	1,165.4	1,154	26,179	29,164

1/ The Honolulu Urbanized Area consists of Honolulu District (the area southwest of the crest of the Koolau Mountains, between Red Hill and Makapuu Point) and the adjacent urbanized territory circling Pearl Harbor, as far west as Waipahu and Ewa Beach in 1970 and 1980, and also extending to Whitmore Village and Schofield Barracks in 1980.

2/ The Kailua-Kaneohe Urbanized Area was initially defined as of 1980. It includes the urban territory on Windward Oahu, from Kahaluu through Waimanalo Beach.

3/ Included with "other urban."

Source: 1970 from the Hawaii State Department of Planning and Economic Development, Land Use and Ownership Trends in Hawaii (Statistical Report 98, December 28, 1973), p. 19; 1980 from U.S. Bureau of the Census, 1980 Census of Population, PC80-1-A1, tables 25 and 34, and PC80-1-A13, table 3, and the Hawaii State Department of Planning and Economic Development, Statistical Memorandum 83-6 (May 18, 1983).

Table 17.-- POPULATION PROJECTIONS, RESIDENT AND DE FACTO, BY COUNTIES: 1980 TO 2005

[Thousands. As of July 1. Series M-F projections, recommended by DBED for State planning purposes]

Type of population and year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui 1/
Resident population: 2/						
1980 (est.)	968.9	764.8	204.1	93.0	39.4	71.6
1985 (est.)..........	1,053.9	814.6	239.2	109.2	44.8	85.3
1990	1,138.4	859.3	279.1	122.6	55.1	101.4
1995	1,211.5	896.9	314.6	134.4	63.9	116.3
2000	1,267.8	925.7	342.2	143.2	69.1	129.9
2005	1,310.0	954.5	355.5	147.6	72.2	135.7
De facto population: 3/						
1980 (est.)	1,055.8	823.6	232.2	99.5	46.4	86.4
1985 (est.)..........	1,152.0	865.1	286.9	115.8	55.6	115.5
1990	1,277.5	941.1	336.4	135.1	66.9	134.4
1995	1,373.0	985.2	387.8	150.6	79.3	157.9
2000	1,447.2	1,018.2	429.0	163.1	88.2	177.7
2005	1,501.0	1,052.1	448.9	168.6	92.2	188.1

1/ Includes Kalawao.

2/ The resident population is defined as the number of persons whose usual place of residence is in an area, regardless of physical location on the estimate or census date. It includes military personnel stationed or homeported in the area but excludes persons of local origin attending school or in military service outside the area.

3/ The de facto population is defined as the number of persons physically present in an area, regardless of military status or usual place of residence; it includes visitors present but excludes residents temporarily absent.

Source: Hawaii State Department of Planning and Economic Development, The Population of Hawaii, 1980-1985 (Statistical Report 190, July 2, 1986), table 5, and Population and Economic Projections for the State of Hawaii, 1980-2005 (July 1984), p. 11.

Table 18.-- POPULATION BY AGE GROUP AND SEX: 1980

[Based on full-count information. For single-year data, see either the source or Data Book 1984, table 18]

Age	All persons	Sex		Island	
		Male	Female	Oahu	Other
All ages	964,691	494,683	470,008	762,565	202,126
Under 5 years	77,848	40,004	37,844	60,154	17,694
5 to 9 years	73,057	37,555	35,502	56,771	16,286
10 to 14 years	74,870	38,459	36,411	58,528	16,342
15 to 19 years	86,446	45,673	40,773	69,715	16,731
20 to 24 years	105,682	59,070	46,612	89,371	16,311
25 to 29 years	95,287	48,864	46,423	75,965	19,322
30 to 34 years	84,314	42,990	41,324	67,491	16,823
35 to 39 years	63,948	32,684	31,264	51,285	12,663
40 to 44 years	47,468	23,765	23,703	38,045	9,423
45 to 49 years	45,240	21,589	23,651	36,161	9,079
50 to 54 years	49,204	23,298	25,906	38,614	10,590
55 to 59 years	47,383	23,502	23,881	36,645	10,738
60 to 64 years	37,794	18,871	18,923	28,452	9,342
65 to 69 years	29,153	15,384	13,769	21,457	7,696
70 to 74 years	20,222	10,991	9,231	14,475	5,747
75 to 79 years	13,673	6,796	6,877	9,901	3,772
80 to 84 years	7,541	3,177	4,364	5,527	2,014
85 years and over ..	5,561	2,011	3,550	4,008	1,553
18 years and over ..	689,108	353,167	335,941	548,002	141,106
62 years and over ..	97,582	48,960	48,622	71,399	26,183
65 years and over ..	76,150	38,359	37,791	55,368	20,782
Median (years)	28.3	27.6	29.1	28.0	29.6

Source: U.S. Bureau of the Census, Census of Population: 1980, General Population Characteristics, Hawaii, PC80-1-B13 (July 1982), table 19.

Table 19.-- POPULATION, BY AGE, SEX, AND MILITARY STATUS: 1980

[Based on a 15.7-percent sample]

Age in years	All groups	Armed forces		Military dependents 1/		Other civilians	
		Male	Female	Male	Female	Male	Female
Total	964,691	54,032	4,411	20,192	41,782	420,748	423,526
Under 1	17,113	-	-	1,590	1,495	7,075	6,953
1 to 4	59,871	-	-	5,498	5,415	25,375	23,583
5 to 9	73,311	-	-	5,529	5,161	32,330	30,291
10 to 14	74,747	-	-	3,772	3,617	34,861	32,497
15 to 19	86,054	5,598	411	2,184	2,841	37,958	37,062
20 to 24	105,987	21,970	1,937	636	5,738	36,687	39,019
25 to 29	95,453	9,960	1,237	408	5,923	38,249	39,676
30 to 34	84,781	7,345	447	144	5,104	35,960	35,781
35 to 39	65,309	4,939	113	82	3,210	28,315	28,650
40 to 44	46,740	2,534	83	18	1,537	20,876	21,692
45 to 49	43,486	1,001	88	34	812	19,725	21,826
50 to 54	49,611	428	65	93	422	22,594	26,009
55 to 59	48,155	185	18	57	169	23,874	23,852
60 to 64	38,108	63	12	33	99	18,818	19,083
65 to 69	28,653	-	-	80	121	15,158	13,294
70 to 74	20,524	-	-	24	76	10,928	9,496
75 to 79	13,649	9	-	-	17	6,603	7,020
80 to 84	7,607	-	-	5	20	3,281	4,301
85 and over	5,532	-	-	5	5	2,081	3,441
Under 15	225,042	-	-	16,389	15,688	99,641	93,324
15 to 64	663,684	54,023	4,411	3,689	25,855	283,056	292,650
65 and over	75,965	9	-	114	239	38,051	37,552
Median (years) .	28.4	24.9	24.6	7.7	22.1	29.7	30.4

1/ Military dependents are defined as civilians in families in which either the householder or the householder's spouse is in the armed forces.

Source: Hawaii State Department of Planning and Economic Development, Population Characteristics of Hawaii by Military Status, 1980 (Statistical Report 163, September 30, 1983), table 4.

Table 20.-- RESIDENT POPULATION, BY AGE AND SEX: 1980 AND 1986

[In thousands. Includes armed forces stationed or homeported in Hawaii. The 1986 estimates are provisional]

Age group	April 1, 1980 (census)			July 1, 1986 (estimates)		
	Both sexes	Male	Female	Both sexes	Male	Female
Total	965	495	470	1,062	542	520
Under 5 years	78	40	38	90	46	44
5 to 14 years	148	76	72	150	77	73
15 to 24 years	192	105	87	175	95	80
25 to 34 years	180	92	88	196	101	95
35 to 44 years	111	56	55	155	78	77
45 to 54 years	94	45	50	94	45	49
55 to 64 years	85	42	43	99	50	49
65 to 74 years	49	26	23	66	33	33
75 years and over ..	27	12	15	37	18	20
5 to 17 years	198	102	96	196	101	95
18 to 24 years	142	79	63	129	71	58
25 to 44 years	291	148	143	351	179	172
45 to 64 years	180	87	92	193	95	99
14 years and over ..	754	386	368	837	426	411
16 years and over ..	723	370	352	807	411	396
18 years and over ..	689	353	336	777	396	381
21 years and over ..	631	320	310	725	367	357
65 years and over ..	76	38	38	103	50	53
Median age	28.3	27.6	29.1	30.9	30.2	31.7

Source: U.S. Bureau of the Census, "State Population and Household Estimates, With Age, Sex, and Components of Change: 1981-86," Current Population Reports, Population Estimates and Projections, Series P-25, No. 1010 (September 1987), p. 45.

Table 21.-- RESIDENT POPULATION, BY AGE AND SEX, FOR COUNTIES: JULY 1, 1984

[Provisional estimates]

Sex and age	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Total	1,037,848	803,135	107,133	44,155	83,425
Males	529,052	408,445	55,062	22,962	42,583
Under 5 years	46,959	35,602	5,266	2,165	3,926
5 to 9 years	36,702	27,535	4,582	1,566	3,019
10 to 14 years	38,659	29,289	4,533	1,676	3,161
15 to 19 years	40,287	31,855	3,920	1,589	2,923
20 to 24 years	58,567	50,022	3,873	1,675	2,997
25 to 34 years	99,360	76,236	9,809	4,397	8,918
35 to 44 years	68,261	52,789	7,123	2,948	5,401
45 to 54 years	46,366	36,222	4,566	1,897	3,681
55 to 64 years	48,627	36,720	5,385	2,315	4,207
65 to 74 years	29,752	21,437	3,787	1,702	2,826
75 years and over	15,512	10,738	2,218	1,032	1,524
Females	508,796	394,690	52,071	21,193	40,842
Under 5 years	42,776	32,295	5,050	2,034	3,397
5 to 9 years	35,172	26,397	4,094	1,619	3,062
10 to 14 years	36,051	27,339	3,810	1,817	3,085
15 to 19 years	38,214	30,287	3,768	1,337	2,822
20 to 24 years	48,523	39,902	3,873	1,540	3,208
25 to 34 years	94,440	73,398	9,504	3,749	7,789
35 to 44 years	65,175	51,234	6,085	2,598	5,258
45 to 54 years	49,699	39,026	4,948	1,977	3,748
55 to 64 years	51,175	39,183	5,488	2,202	4,302
65 to 74 years	29,694	22,166	3,430	1,467	2,631
75 years and over	17,877	13,463	2,021	853	1,540
Median age	29.9	29.6	30.6	31.3	30.9
Male	29.3	28.8	30.5	31.6	30.8
Female	30.5	30.4	30.7	30.9	31.0

Source: U.S. Bureau of the Census, County Population Estimates (Experimental) by Age, Sex, and Race: 1980, 1982, and 1984 (1987), tabulated by the Hawaii State Data Center.

Table 22.-- PROJECTED RESIDENT POPULATION, BY AGE AND SEX: 1990, 1995, AND 2005

[Thousands. As of July 1. Series M-F projections, recommended by DBED for Statewide planning purposes. For 1980 estimate and 2000 projection, see source or Data Book 1984, table 22]

Age in years	1990			1995			2005		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total .	1,138.4	578.5	560.0	1,211.5	613.2	598.3	1,310.0	659.8	650.1
0 to 4	89.4	45.7	43.6	91.3	46.7	44.6	91.3	46.8	44.5
5 to 9	83.4	43.0	40.4	87.0	44.8	42.2	88.8	45.7	43.1
10 to 14 ...	78.1	40.1	38.0	82.1	42.1	40.0	85.7	43.9	41.7
15 to 19 ...	82.9	44.6	38.3	85.2	45.8	39.4	89.0	47.7	41.3
20 to 24 ...	109.5	62.7	46.8	109.5	62.8	46.6	109.6	63.1	46.6
25 to 29 ...	101.4	52.5	48.9	101.2	52.8	48.4	98.8	51.7	47.0
30 to 34 ...	98.2	49.8	48.4	99.6	51.0	48.7	96.8	50.0	46.8
35 to 39 ...	88.8	44.8	43.9	93.5	47.4	46.1	93.8	48.1	45.7
40 to 44 ...	75.6	37.7	37.9	84.1	41.9	42.2	89.6	45.2	44.4
45 to 49 ...	61.8	30.2	31.6	72.7	35.6	37.1	84.3	41.7	42.6
50 to 54 ...	52.8	25.4	27.4	62.2	30.1	32.1	77.5	37.9	39.7
55 to 59 ...	47.7	22.6	25.1	53.2	25.4	27.8	68.6	33.1	35.5
60 to 64 ...	44.8	21.1	23.7	47.2	22.2	25.0	59.0	28.0	31.0
65 to 69 ...	40.0	19.1	20.9	42.1	19.7	22.5	50.0	23.2	26.8
70 to 74 ...	32.2	15.5	16.7	35.7	16.5	19.2	41.6	18.7	22.8
75 to 79 ...	23.1	11.1	12.1	27.4	12.5	14.9	33.1	14.4	18.8
80 to 84 ...	14.8	6.9	8.0	18.5	8.2	10.3	24.0	9.9	14.1
85 and over	14.0	5.7	8.3	19.0	7.7	11.3	28.6	10.8	17.8
Median age .	31.3	30.1	32.5	32.5	31.1	33.9	34.7	33.1	36.5

Source: Hawaii State Department of Planning and Economic Development, Population and Economic Projections for the State of Hawaii, 1980-2005 (July 1984), pp. 12-13.

Table 23.-- CENTENARIAN POPULATION AND DEATHS: 1980 TO 1986

Subject	Number			Age of oldest (years)	
	Both sexes	Male	Female	Male	Female
Persons 100 years and over:					
April 1980 1/	113	51	62	110+	110+
December 1983 2/	70	30	40	110	109
December 1986 2/	100	40	60	(NA)	(NA)
Deaths 100 and over:					
1980-1984	99	28	71	110	113
1985	33	10	23	114	109
1986	29	10	19	106	106

NA Not available.

1/ Census data.

2/ Social Security beneficiaries in force. Based on a 10-percent sample.

Source: Hawaii State Department of Health and Department of Planning and Economic Development, Extreme Old Age in Hawaii (Population Report, No. 14, November 1982); U.S. Department of Human Services, Social Security Administration, Division of Statistical Operations and Services, records; Hawaii State Department of Health, Research and Statistics Office, records.

Table 24.-- ETHNIC STOCK BY MILITARY STATUS: 1986

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 17,107 persons]

Ethnic stock 1/	Total		Armed forces	Military dependents	Other civilians
	Number	Percent			
All groups	1,022,745	100.0	37,169	66,211	919,366
Unmixed	703,990	68.8	34,947	54,545	614,497
Caucasian	239,294	23.4	22,729	33,105	183,460
Japanese	235,207	23.0	127	886	234,194
Chinese	48,727	4.8	67	0	48,660
Filipino	115,519	11.3	1,402	5,456	108,661
Hawaiian	8,093	0.8	0	0	8,093
Korean	13,284	1.3	0	714	12,569
Black	23,032	2.3	8,703	11,573	2,756
Puerto Rican	4,279	0.4	861	1,021	2,397
Samoan	3,825	0.4	151	768	2,906
Other unmixed or unknown .	12,729	1.2	908	1,022	10,800
Mixed	318,755	31.2	2,221	11,665	304,869
Part Hawaiian	203,355	19.9	490	982	201,884
Non Hawaiian	115,401	11.3	1,732	10,684	102,985

1/ Definitions used in this table differ from those in reports of the U.S. Bureau of the Census. Persons of mixed race are shown separately in this table but in 1980 census tabulations are assigned to one of the unmixed groups on the basis of self-identification or race of mother.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 25.-- ETHNIC STOCK, BY COUNTIES: 1986

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 17,107 persons]

Ethnic stock 1/	State total	City and Co. of Honolulu	Hawaii County	Kauai County	Maui County
All groups	1,022,751	780,024	110,140	45,921	86,666
Unmixed	704,416	555,941	62,008	30,248	56,220
Caucasian	239,444	182,751	26,174	8,579	21,940
Japanese	235,232	185,371	22,473	10,226	17,162
Chinese	48,832	46,680	1,303	273	575
Filipino	115,611	81,924	9,741	10,464	13,482
Hawaiian	8,104	5,502	666	334	1,602
Korean	13,313	12,608	285	103	318
Black	23,031	22,693	263	12	64
Puerto Rican	4,263	2,928	756	181	397
Samoan	3,830	3,751	79	0	0
Other unmixed and unknown	12,756	11,731	269	75	681
Mixed	318,335	224,084	48,132	15,673	30,446
Part Hawaiian	203,085	138,309	33,405	10,208	21,163
Non Hawaiian	115,250	85,775	14,727	5,465	9,283

1/ Definitions used in this table differ from those in reports of the U.S. Bureau of the Census. Persons of mixed race are shown separately in this table but in 1980 census tabulations are assigned to one of the unmixed groups on the basis of self-identification or race of mother.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 26.-- POPULATION BY RACE AND SPANISH ORIGIN, BY COUNTIES: 1980

[Based on a 15.7-percent sample]

Race and Spanish origin	State total	City and Co. of Honolulu	Other counties			
			Hawaii	Kalawao	Kauai	Maui
Total persons	964,691	762,565	92,053	144	39,082	70,847
Race: 1/						
White	331,925	262,604	32,198	21	11,565	25,537
Black	17,687	17,203	278	-	59	147
American Indian	2,833	2,348	316	-	63	106
Eskimo	74	69	-	-	-	5
Aleut	69	28	17	-	-	24
Japanese	239,734	190,218	24,446	23	9,606	15,441
Chinese	55,916	52,301	1,600	9	587	1,419
Filipino	132,075	96,421	12,746	26	9,944	12,938
Korean	17,453	16,566	522	1	128	236
Asian Indian	708	637	25	-	-	46
Vietnamese	3,403	3,251	139	-	-	13
Hawaiian	118,251	81,868	17,317	59	6,057	12,950
Guamanian	1,630	1,470	49	-	64	47
Samoan	14,349	13,975	219	3	63	89
Other Asian and Pacific Islander	7,140	6,410	490	2	24	214
Race n.e.c.	21,444	17,196	1,691	-	922	1,635
Spanish origin: 2/						
Spanish origin	71,399	54,619	8,261	1	3,226	5,292
Not of Spanish origin ..	893,292	707,946	83,792	143	35,856	65,555

n.e.c. Not elsewhere classified.

1/ Persons of mixed race classified by self-identification or race of mother. Data are not comparable either to earlier censuses or to such surveys as the Hawaii Health Surveillance Program. The latter survey reported that 27.3 percent of the population in households in 1980 was of mixed race (17.9 percent Part Hawaiian and 9.4 percent non-Hawaiian).

2/ For a cross-tabulation of Spanish origin by race, see *Data Book 1985*, table 27.

Source: U.S. Bureau of the Census, *Census of Population: 1980, General Social and Economic Characteristics, Hawaii*, PC80-1-C13 (1983), tables 58 and 59.

Table 27.-- ANCESTRY: 1980

Ancestry group 1/	Persons who reported --		
	At least one specific ancestry group	A single ancestry group	A multiple ancestry group
Total 2/	901,210	632,972	268,238
Dutch	10,554	1,886	8,668
English	96,223	33,262	62,961
French	26,429	3,926	22,503
German	82,982	22,181	60,801
Irish	68,041	12,845	55,196
Italian	13,994	5,331	8,663
Portuguese	57,541	26,447	31,094
Scottish	24,300	3,387	20,913
Afro-American	15,612	13,200	2,412
Chinese	91,305	45,062	46,243
Filipino	139,621	105,973	33,648
Japanese	246,000	214,964	31,036
Korean	20,854	15,091	5,763
Puerto Rican	14,997	7,082	7,915
Spanish/Hispanic	17,208	4,001	13,207
Hawaiian 3/	136,341	61,226	75,115
American Indian	11,728	2,210	9,518

1/ Shown separately for all groups over 10,000.

2/ Numbers by ancestry group do not add to total because persons reporting a multiple ancestry are included in more than one group.

3/ The U.S. total for persons with Hawaiian ancestry was 202,054, including 84,104 reporting a single ancestry group and 117,950 reporting a multiple ancestry group. Out of 65,708 Mainland residents reporting Hawaiian ancestry, 32,145 were living in California.

Source: U.S. Bureau of the Census, 1980 Census of Population, Ancestry of the Population by State: 1980, Supplementary Report PC80-S1-10 (April 1983).

Table 28.-- PLACE OF BIRTH, MOBILITY, MILITARY STATUS, AND COLLEGE ATTENDANCE OF HAWAIIANS LIVING IN HAWAII AND ON THE MAINLAND: 1980

[Race based on self-identification or race of mother. Unless otherwise specified, data are from the 5-percent Public Use Microdata Sample]

Subject	Place of residence in 1980		
	United States	Hawaii	Other States
All Hawaiians 1/	177,900	122,660	55,240
Place of birth:			
Hawaii	142,900	117,060	25,840
Other States	30,460	3,780	26,680
U.S. territories and possessions 2/	2,260	960	1,300
Foreign country	2,280	860	1,420
Military status in 1980:			
Armed forces	3,040	800	2,240
Military dependents	2,880	1,020	1,860
All others	171,980	120,840	51,140
College attendance in 1980:			
Attending college	8,120	3,820	4,300
Not attending college	169,780	118,840	50,940
Residence in 1975: 3/			
Hawaii	112,920	106,800	6,120
Other States	47,640	3,200	44,440
Abroad	1,720	480	1,240

1/ For totals based on the larger 15.7-percent sample for Hawaii and 18.2-percent sample for the U.S. as a whole, see the following table.

2/ Includes persons born abroad or at sea of U.S. parents.

3/ Excludes persons under 5 years old. Based on the 2.5-percent Public Use Microdata Sample.

Source follows next table.

Table 29.-- SOCIAL AND ECONOMIC CHARACTERISTICS OF HAWAIIANS LIVING IN HAWAII AND ON THE MAINLAND: 1980

[Race based on self-identification or race of mother. Unless otherwise specified, data are from the 5-percent Public Use Microdata Sample]

Subject	Place of residence in 1980		
	United States	Hawaii	Other States
Number of Hawaiians 1/	172,346	118,251	54,095
Males per 100 females	93.2	94.6	90.2
Age (percent:			
Under 15 years	29.9	33.1	22.8
15 to 64 years	64.3	62.2	69.0
65 years and over	5.8	4.7	8.2
Median age (years)	23.9	22.4	26.9
Households 2/	49,040	29,240	19,800
Persons per household 3/	3.54	4.13	2.66
Percent in group quarters	2.4	1.5	4.5
Persons 25 years and over:			
Percent high school graduates	68.8	69.2	68.1
Percent college, 4 or more years	10.0	8.3	13.2
Percent of persons 16 and over in labor force	64.1	63.2	65.7
Percent of civilian labor force unemployed	6.8	7.1	6.1
Percent of employed persons in managerial and professional specialty occupations	17.9	16.7	20.2
Median 1979 income (dollars):			
Households 2/	16,541	18,705	13,413
Families 2/	19,475	20,030	18,299
Unrelated individuals	6,466	7,841	5,761
Percent of persons below poverty status	14.0	14.6	12.9

1/ Based on a 15.7 percent sample for Hawaii and 18.2 percent sample nationally (from U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, PC80-1-C1 (Dec. 1983), table 232), and thus somewhat different from the totals based on the 5-percent sample in the preceding table.

2/ Households with a Hawaiian householder.

3/ Hawaiians in households per Hawaiian householder. Many households with a Hawaiian householder have non-Hawaiian household members, and many Hawaiian household members live in households with a non-Hawaiian householder.

Source: U.S. Bureau of the Census, Census of Population and Housing, 1980, Public Use Microdata Sample A -- 5 Percent (Hawaii), special tabulation by Hawaii State Data Center.

Table 30.-- NATIVITY, PLACE OF BIRTH, AND CITIZENSHIP: 1980 AND 1970

Nativity, place of birth, and citizenship	State totals		Islands: 1980	
	1980	1970	Oahu	Other islands
NATIVITY AND PLACE OF BIRTH				
Total persons	964,691	768,559	762,565	202,126
Native 1/	827,675	692,964	649,354	178,321
Born in Hawaii	557,990	455,060	420,120	137,870
Born in different State	248,752	178,531	209,901	38,851
Born abroad, at sea, etc. 2/	20,933	17,286	19,333	1,600
Foreign born	137,016	75,595	113,211	23,805
Europe and U.S.S.R.	9,100	5,595	7,457	1,643
China	6,112	4,663	5,875	237
Japan	22,265	19,685	18,718	3,547
Korea	9,060	2,063	8,774	286
Philippines	58,510	33,175	43,880	14,630
Vietnam	3,606	(3/)	3,531	75
All other countries	22,267	8,208	19,719	2,548
Country not reported	6,096	2,206	5,257	839
CITIZENSHIP 4/				
Foreign born	137,016	73,578	113,211	23,805
Naturalized citizen	62,287	30,566	51,314	10,973
Not a citizen	74,729	43,012	61,897	12,832

1/ 1970 figure includes persons not reporting place of birth, not shown separately.

2/ Includes persons born in Puerto Rico, American Samoa, or other outlying areas of the United States, and persons born at sea or in a foreign country having at least one American parent.

3/ Included with "All other countries."

4/ 1970 data based on a subsample; foreign born total thus differs somewhat from corresponding figure shown elsewhere in this table.

Source: U.S. Bureau of the Census, *1980 Census of Population, General Social and Economic Characteristics, Hawaii*, PC80-1-C-13 (June 1983), tables 61, 63, and 118; *1970 Census of Population, Detailed Characteristics, Hawaii*, PC(1)-D13 (July 1972), tables 141 and 144.

Table 31.-- PLACE OF BIRTH AND LENGTH OF RESIDENCE IN HAWAII, BY MILITARY STATUS: 1986

[Excludes persons in institutions or military barracks, in Kalawao, or on Niihau. Based on a sample survey of 17,107 persons]

Place of birth and length of residence	All groups	Armed forces	Military dependents	Other civilians
Total	1,022,745	37,168	66,210	919,367
PLACE OF BIRTH				
Native born	881,296	33,793	55,951	791,551
Hawaii	657,347	1,085	10,900	645,362
Mainland U.S.	217,803	32,222	43,052	142,528
American Samoa	1,388	95	357	937
Other terr. or poss. ...	4,758	391	1,643	2,724
Foreign born	133,113	2,997	9,196	120,920
China 1/	13,066	0	61	13,005
Indo-China 2/	6,392	56	158	6,178
Japan	19,257	134	955	18,169
Korea	9,709	89	1,006	8,614
Philippines	66,175	1,469	4,191	60,515
Other foreign	18,512	1,250	2,825	14,438
Not reported	8,336	377	1,063	6,896
LENGTH OF RESIDENCE IN HAWAII				
Less than 1 year	46,144	5,325	14,199	26,621
1 to 4 years	175,128	27,356	44,945	102,827
5 to 9 years	110,550	2,150	2,399	106,000
10 to 19 years	214,071	960	2,465	210,647
20 years or more	441,435	1,059	1,181	439,195
Not reported	35,418	320	1,022	34,077
Median years	16.6	2.9	2.6	19.8

1/ Includes Taiwan.
2/ Cambodia, Laos, or Vietnam.
Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 32.-- CITIZENSHIP, BY AGE AND LENGTH OF RESIDENCE IN HAWAII: 1986

[Excludes persons in institutions or military barracks, in Kalawao, or on Niihau. Based on a sample survey of 17,107 persons]

Age and length of residence in Hawaii	All categories	U.S. citizens		U.S. nationals 1/	Aliens	Status not reported
		Native born	Naturalized			
Total	1,022,748	895,244	64,789	1,074	47,832	13,809
Age (percent)	100.0	100.0	100.0	100.0	100.0	100.0
Under 6 years	10.2	11.5	0.2	0.0	1.8	7.5
6 to 16 years	18.5	19.8	6.0	16.9	13.1	11.3
17 to 24 years	13.7	13.7	9.9	15.4	16.8	18.5
25 to 44 years	30.8	30.2	37.2	34.2	35.8	25.5
45 to 64 years	18.9	17.8	30.9	31.0	21.9	22.1
65 years and over ...	7.9	7.1	15.7	2.5	10.6	15.0
Median age (years) ..	29.9	28.3	43.2	35.3	35.2	34.9
Years lived in Hawaii: (percent)	100.0	100.0	100.0	100.0	100.0	100.0
Less than 1 year	5.2	5.1	2.7	2.9	10.7	3.5
1 to 4 years	19.4	19.3	13.8	24.1	31.4	9.3
5 to 9 years	10.5	9.6	15.0	9.6	20.3	14.3
10 to 19 years	20.2	18.7	37.8	37.7	24.9	17.2
20 years or more	41.4	44.2	29.2	18.9	12.1	22.1
Not reported	3.4	3.2	1.4	6.7	0.5	33.6
Median (years)	16.5	17.6	14.7	12.6	6.9	13.5

1/ From American Samoa.
Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 33.-- LANGUAGE SPOKEN AT HOME BY PERSONS FIVE YEARS OLD AND OVER, BY ABILITY TO SPEAK ENGLISH: 1980

[Unless otherwise specified, data are based on a 15.7-percent sample]

Language	Total	Speak English -- Very well	Well	Not well	Not at all
Persons 5 and over	887,707	...	...	...	...
Speak only English at home	658,752	...	...	...	...
Speak a language other than English at home	228,955	110,338	74,946	37,797	5,874
Chinese 1/	20,066	9,057	6,096	4,014	899
Japanese 1/	80,230	39,640	24,705	13,475	2,410
Korean	9,231	2,707	3,317	2,749	458
Philippine language 1/	66,655	26,550	26,311	12,533	1,261
Spanish	11,933	8,752	2,460	697	24
All others	40,840	23,632	12,057	4,329	822
Speak a Polynesian language at home 2/	21,740	12,220	7,200	2,220	100
Hawaiian 2/, 3/	9,060	6,580	2,200	240	40
Samoan 2/	11,020	5,000	4,320	1,640	60
Tongan 2/	1,180	360	560	260	-
Other Polynesian 2/	480	280	120	80	-

1/ For statistics on individual Chinese, Japanese, and Philippine languages or dialects, see Data Book 1984, tables 38 and 39.

2/ Based on the 5-percent Public Use Microdata Sample.

3/ For demographic characteristics of persons speaking Hawaiian at home, see Data Book 1986, table 32. By race, this group included 7,920 Hawaiians, 580 whites, 240 Chinese, and 320 members of other races. For all 9,060, the median age was 44.4 years.

Source: U.S. Bureau of the Census, 1980 Census of Population, Detailed Population Characteristics, Hawaii, PC80-1-D13 (October 1983), table 197, and Census of Population and Housing, 1980, Public Use Microdata Sample A-5 Percent (Hawaii), special tabulation by Hawaii State Data Center.

Table 34.-- GENERAL POPULATION CHARACTERISTICS, BY COUNTIES: 1980

Subject	State total	City and Co. of Honolulu	Other counties			
			Hawaii	Kalawao	Kauai	Maui
RESIDENT POPULATION						
Total persons	964,691	762,565	92,053	144	39,082	70,847
Percent:						
Change 1970-80	25.3	20.9	45.0	-16.3	-31.3	54.1
Under 18 years	28.6	28.1	30.6	0	30.5	29.5
18 to 64 years	63.5	64.6	59.2	74.3	58.4	60.5
65 years and over	7.9	7.3	10.2	25.7	11.1	9.9
Median age	28.3	28.0	29.4	58.1	29.8	29.6
Fertility ratio 1/	307	295	370	0	369	328
15 years and over - Percent now married, including separated:						
Male	56.3	55.7	59.2	51.7	59.9	58.2
Female	58.3	57.8	60.6	54.4	62.3	59.1
In group quarters:						
Total	39,599	36,700	1,617	40	403	839
Percent of total persons	4.1	4.8	1.8	27.8	1.0	1.2
HOUSEHOLDS AND FAMILIES						
Households	294,052	230,214	29,237	71	12,020	22,510
Percent change, 1970-80 .	44.8	39.7	69.4	(NA)	45.1	76.1
Persons per household ...	3.15	3.15	3.09	1.46	3.22	3.11
Families	226,035	176,916	22,784	30	9,475	16,830
Persons per family	3.61	3.62	3.51	2.00	3.62	3.59

1/ Children under 5 years per 1,000 women 15 to 49 years.

Source: U.S. Bureau of the Census, Census of Population: 1980, General Population Characteristics, Hawaii, PC80-1-B13 (1982), tables 14 , 21, 47, and 49.

Table 35.-- POPULATION CHARACTERISTICS, BY MILITARY STATUS: 1980

Subject	All groups	Armed Forces	Military depend-ents 1/	Other civilians
Number	964,691	58,443	61,974	844,274
Race (percent):				
White	34.4	73.7	67.2	29.3
Black	1.8	13.3	7.5	0.6
American Indian, Eskimo, Aleut	0.3	0.9	0.4	0.3
Asian and Pacific Islander	61.2	8.1	20.8	67.9
Other	2.2	3.9	4.0	2.0
Spanish origin (percent)	7.4	7.1	8.9	7.3
Males per 100 females	105.4	1,224.9	48.3	99.3
Median age (years)	28.4	24.9	14.3	29.7
Population per household	3.14	3.29		3.12
Percent in group quarters	4.1	41.1	6.8	1.8
Percent of persons 15 and over married:				
Male	55.7	52.6	21.3	56.7
Female	57.3	44.4	88.9	55.0
Children ever born per 1,000 women 15-44	1,219	460	1,499	1,201
Place of birth (percent):				
Hawaii	57.8	4.2	17.1	64.5
Different State	25.8	87.2	64.2	18.7
Foreign country	14.2	6.1	12.0	14.9
Residence in 1975 (percent):				
Same house as 1980	49.3	3.6	7.2	55.3
Different State	16.9	79.7	65.6	9.2
Abroad	5.9	9.7	14.3	5.1
Percent of persons 25 and over high school graduates	73.8	95.5	84.6	72.2
Percent of persons 16 and over in labor force	68.3	100.0	44.6	66.5
Percent of civilian labor force unemployed	4.7	...	12.2	4.5
Percent of employed persons in managerial and professional specialty occupations	23.5	...	19.4	23.6
Median income in 1979 (dollars):				
Persons	7,325	8,123	3,273	7,532
Families	22,648	14,055	...	24,234
Unrelated individuals	7,154	6,608	...	7,791

1/ Military dependents are defined as civilians in families in which either the householder or the householder's spouse is in the Armed Forces.

Source: Hawaii State Department of Planning and Economic Development, Population Characteristics of Hawaii by Military Status, 1980 (Statistical Report 163, September 30, 1983), tables 1 and 2.

Table 36.-- HOUSEHOLD TYPE AND RELATIONSHIP: 1980

Household type and relationship	State total	Oahu	Other islands
Total persons	964,691	762,565	202,126
In households	925,092	725,865	199,227
Householder	294,052	230,214	63,838
Family householder: Male	190,426	148,549	41,877
Female	35,609	28,367	7,242
Nonfamily householder: Male	37,333	28,632	8,701
Female	30,684	24,666	6,018
Spouse	185,698	145,333	40,365
Child	330,281	260,999	69,282
Brother or sister	11,115	8,989	2,126
Parent	11,493	9,231	2,262
Other relative	50,361	38,890	11,471
Nonrelatives	42,092	32,209	9,883
In group quarters	39,599	36,700	2,899
Inmate of institution	5,785	4,565	1,220
Other	33,814	32,135	1,679
Persons 75 years and over living alone	5,075	3,560	1,515
Persons per household	3.15	3.15	3.12
Persons per family	3.61	3.62	3.56
Persons under 18 years	275,583	214,563	61,020
Householder or spouse	387	295	92
Own child	243,671	190,289	53,382
In married-couple family	204,455	159,866	44,589
With female householder, no husband present	32,392	25,584	6,858
With male householder, no wife present	6,824	4,889	1,935
Other relatives	25,918	19,832	6,086
Nonrelatives	3,985	2,941	1,044
Inmate of institution	387	349	38
Other, in group quarters	1,235	857	378
Persons 65 years and over	76,150	55,368	20,782
Family householder: Male	25,453	17,831	7,622
Female	3,959	3,024	935
Spouse	13,763	9,755	4,008
Other relatives	14,015	10,945	3,070
Nonrelatives	1,887	1,396	491
Nonfamily householder: Male	4,670	3,046	1,624
Female	8,705	6,548	2,157
Inmate of institution	2,961	2,116	845
Other, in group quarters	737	707	30

Source: U.S. Bureau of the Census, Census of Population: 1980, General Population Characteristics, Hawaii, PC80-1-B13 (1982), table 21.

Table 37.-- HOUSEHOLDS AND HOUSEHOLD SIZE: 1940 TO 1986

[As of April 1, 1940-1980, and July 1 thereafter. For annual estimates, 1971-1979, see *Data Book 1985*, table 585]

Year	Households	Average size	Year	Households	Average size
1940 ...	86,855	4.46	1982 ...	310,000	(NA)
1950 ...	111,858	4.14	1983 ...	316,000	(NA)
1960 ...	153,064	3.87	1984 ...	323,000	(NA)
1970 ...	203,088	3.59	1985 ...	330,000	(NA)
1980 ...	294,052	3.15	1986 ...	336,000	3.04
1981 ...	304,000	(NA)			

NA Not available.

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (University Press of Hawaii, 1977), p. 33. U.S. Bureau of the Census, *Census of Population: 1980, General Population Characteristics, Hawaii*, PC80-1-B13 (1982), table 14; "State Population and Household Estimates, With Age, Sex, and Components of Change: 1981-86" *Current Population Reports, Population Estimates and Projections*, Series P-25, No. 1010, (September 1987), p. 87.

Table 38.-- FAMILY TYPE BY PRESENCE OF OWN CHILDREN: 1980

Presence of own children	All families	Married couple families	Female householder no husband present
Total	226,035	185,698	29,422
With own children under 18 years	132,087	101,644	17,410
With own children under 6 years only	32,604	27,528	4,131
With own children under 6 and 6 to 17 years	25,070	21,883	2,779
Number of own children under 18 years	243,671	204,455	32,392
Number of own children under 6 years	79,619	68,656	9,230

Source: U.S. Bureau of the Census, *Census of Population: 1980, General Population Characteristics, Hawaii*, PC80-1-B13 (1982), table 21.

Table 39.-- HOUSEHOLDS AND FAMILIES: ANNUAL AVERAGES, 1982-84 AND 1985-87

[Based on pooled samples of 1,772 households (5,443 persons) for 1982-1984 and 1,530 households (4,600 persons) for 1985-1987]

Subject	1982-1984	1985-1987
Number of households	321,404	339,556
Persons in households	984,814	1,008,436
Per household	3.06	2.97
Number of families	241,555	257,482
Persons in families	861,652	890,821
Per family	3.57	3.46

Source: U.S. Bureau of the Census for the U.S. Bureau of Labor Statistics, Current Population Survey (March), annual, 1982 to 1987; machine-readable data file, special tabulation by Hawaii State Data Center.

Table 40.-- MARITAL STATUS, BY SEX: 1986

[Excludes persons in institutions, military barracks, or Kalawao, or on Niihau. Based on a sample survey of 13,400 persons 14 years old and over]

Marital status	Male	Female
Persons 14 years old and over	391,077	396,198
Single, never married	135,944	109,010
Married, except separated	228,008	234,310
Separated	1,980	4,451
Widowed	8,426	26,347
Divorced	15,093	19,543
Not reported	1,626	2,537

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 41.-- MARRIED COUPLES, UNMARRIED COUPLES, AND SUBFAMILIES: 1960 TO 1980

Subject	1960	1970	1980
Married couples	120,192	154,678	198,398
Married couple families 1/	113,164	147,326	188,933
Married couple subfamilies 2/	7,028	7,352	9,465
Percent	5.8	4.8	4.8
Unmarried couples	(NA)	(NA)	9,963
No persons under 15 years	(NA)	(NA)	7,529
One or more persons under 15 years	(NA)	(NA)	2,434
Subfamilies 2/	9,151	10,111	13,319
Married couple subfamilies	7,028	7,352	9,465
Mother-child subfamilies	1,731	2,288	3,132
Other subfamilies	392	471	722

NA Not available.

1/ Based on a sample; data may therefore differ somewhat from comparable data in table 37.

2/ A subfamily is a married couple (husband and wife enumerated as members of the same household) with or without children, or one parent with one or more never married children under 18 years of age, living in a household and related to either the householder or householder's spouse. The number or percentage of subfamilies is sometimes treated as a measure of the "doubling up" of households.

Source: U.S. Bureau of the Census, 1960 Census of Population, Detailed Characteristics, Hawaii, PC(1)-13D (1962), table 108; 1970 Census of Population, Detailed Characteristics, Hawaii, PC(1)-D13 (1972), table 155; 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (1983), table 64 and p. B-2; 1980 Census of Population, Detailed Population Characteristics, Hawaii, PC80-1-D13 (1983), table 208.

Table 42.-- CHURCHES, CLERGY, AND CHURCH MEMBERSHIP, BY DENOMINATIONS: 1982

Denomination 1/	Churches	Clergy	Members
Buddhist:			
Honpa Hongwanji	36	40	21,500
Kegonshu Todaiji 2/	1	2	30,000
Others 3/	52+	68+	14,030+
Christian:			
Greek Orthodox (Eastern) 4/	1	1	200
Protestant:			
Assembly of God	(NA)	(NA)	7,000
Church of Jesus Christ of Latter-Day Saints	87	(5/)	31,027
Episcopal	40	85	10,541
Jehovah's Witnesses	59	59	4,730
Lutheran	21	25	4,604
Seventh-day Adventists	21	29	4,147
Southern Baptist	60	65	11,340
United Church of Christ	113	129	17,485
United Methodist Church	31	44	6,242
Other Protestant 6/	100+	249+	10,647+
Roman Catholic 7/	64	168	209,000
Other Christian 8/	3+	4+	3,255+
Indian or Hindu 9/	23+	28+	1,880+
Jewish 4/, 10/	1+	2+	442
Muslim	1	-	500
New religious movements:			
Tenrikyo	72	300	4,500
Others 11/	20+	28+	7,785+
Shinto:			
Daijingu Temple of Hawaii 2/	(NA)	(NA)	7,500
Kotohira Jinsha Mission 2/	(NA)	(NA)	7,500
Others 12/	(NA)	(NA)	(NA)
Other religious faiths 13/	31+	(NA)	6,306+

NA Not available.

1/ Shown separately for denominations with 4,000 or more members, and selected other denominations. For a complete listing, see source.

2/ Membership figure refers to number receiving healing, blessing, or special amulet.

3/ 19 denominations, of which 17 reported data.

Continued on next page.

Table 42.-- CHURCHES, CLERGY, AND CHURCH MEMBERSHIP, BY DENOMINATIONS: 1982 -- Con.

4/ Membership figure refers to families rather than individuals.

5/ Lay leaders.

6/ 19 denominations, of which 12 reported number of churches and clergy and 11 reported membership.

7/ Membership in 1985 was estimated at 217,000 (Honolulu Advertiser, May 31, 1986, p. A-9).

8/ 4 denominations (Christian Science, Religious Science, Society of Friends, and Unity), of which 3 reported data.

9/ 9 denominations, of which 8 reported data.

10/ 2 denominations, of which 1 reported data.

11/ 6 denominations, of which 5 reported data.

12/ 3 denominations, of which none reported data.

13/ 4 denominations (Baha'i, Scientology, Unification Church, and Unitarian), of which 3 reported data.

Source: Survey by Department of Religion, University of Hawaii, reported in Geography Department, University of Hawaii, Atlas of Hawaii, Second Edition (1983), p. 133.

Table 43.-- CHURCHES AND CHURCH MEMBERSHIP, BY COUNTIES: 1980

[Data limited to 111 Judaeo-Christian church bodies surveyed nationally. See source for county detail for each denomination]

County	Denominations	Churches	Communicant, confirmed members	Total adherents (estimated)		
				All groups	Catholics	Other groups 1/
State total	39	558	62,551	320,288	210,000	110,288
Hawaii	19	91	5,405	49,442	38,000	11,442
Maui	16	76	4,444	20,794	12,430	8,364
Kalawao	2	2	92	162	70	92
Honolulu	36	338	49,431	232,304	148,000	84,304
Kauai	17	51	3,179	17,586	11,500	6,086

1/ Major non-Catholic groups included the Church of Jesus Christ of Latter-Day Saints, 28,002 adherents; United Church of Christ, 20,787; Southern Baptist Convention, 13,336; and the Episcopal Church, 10,077.

Source: Bernard Quinn et al., Churches and Church Membership in the United States 1980 (1982), p. 78.

Table 44.-- COMPONENTS OF CHANGE IN THE RESIDENT POPULATION, BY MILITARY STATUS AND COUNTIES: 1980 TO 1986

[April 1, 1980 to June 30, 1986. Provisional data. For 1970-1980, see Data Book 1985, table 45]

Military status and county	Net change	Vital events			Net migration 1/
		Natural increase	Live births	Deaths	
THE STATE					
State total	+97,700	82,100	115,300	33,200	+15,600
Armed forces	+1,100	-200	-	200	+1,200
Military dependents	+2,200	23,700	24,200	500	-21,500
Other residents	+94,400	58,500	91,100	32,500	+35,900
Annual average	+15,100	9,400	14,600	5,200	+5,700
Percent distribution	100.0	62.0	...	...	38.0
COUNTIES					
City & Co. of Honolulu	+54,200	64,200	88,900	24,700	-10,000
Armed forces	+1,200	-200	-	200	+1,300
Military dependents	+2,200	23,700	24,200	500	-21,500
Other residents	+50,800	40,600	64,600	24,000	+10,200
Other counties	+43,500	17,900	26,400	8,500	+25,600
Hawaii	+19,700	8,000	12,000	4,000	+11,700
Kauai	+7,200	3,300	4,900	1,600	+4,000
Maui and Kalawao	+16,600	6,700	9,500	2,900	+9,900

1/ Includes net changes in military status.

Source: Hawaii State Department of Business and Economic Development, The Population of Hawaii, 1980-1986 (Statistical Report 201, September 21, 1987), table 11.

Table 45.-- CHARACTERISTICS OF INTENDED RESIDENTS ARRIVING FROM THE MAINLAND UNITED STATES: 1986

Military status of family head	Persons per party	Median age (years)	Males per 100 females	From Western States (percent)	Retired party heads (percent)
Total	1.69	24.2	115.0	25.9	1.8
Civilian only	1.44	28.1	78.4	46.9	7.0

Source: Hawaii State Department of Business and Economic Development, Hawaii's Migrants, 1986 (Statistical Report 203, 1987), tables 11-15.

Table 46.-- IMMIGRANTS ADMITTED, TOTAL AND THROUGH HONOLULU: 1977 TO 1987

[Years ended September 30. Data refer to immigrants admitted to the United States, reporting Hawaii as their State of intended permanent residence]

Year	All immigrants admitted 1/	Admitted through Honolulu 2/	Year	All immigrants admitted 1/	Admitted through Honolulu 2/
1977	7,825	5,375	1983	7,118	5,238
1978	9,053	5,870	1984	8,981	5,476
1979	8,944	6,882	1985	7,868	5,599
1980	(NA)	5,682	1986	7,814	5,748
1981	(NA)	6,422	1987	(NA)	5,465
1982	8,557	6,890			

NA Not available.

1/ Through any port of entry. Totals include non-immigrant arrivals who changed their status after entry.

2/ Totals exclude persons admitted through ports other Honolulu and also non-immigrant arrivals who changed their status after entry.

Source: All-port admissions from U.S. Immigration and Naturalization Service, records; admissions through Honolulu from INS Honolulu office, monthly tabulations.

Table 47.-- IMMIGRANTS ADMITTED, BY COUNTRIES OF BIRTH: 1982 TO 1986

[Years ended September 30. Data refer to immigrants admitted to the United States, reporting Hawaii as their State of intended permanent residence, and include non-immigrant arrivals who changed their status after entry]

Country of birth	1982	1983	1984	1985	1986
All countries	8,557	7,118	8,981	7,868	7,814
Canada	84	109	97	130	115
China and Taiwan	650	676	825	799	724
Japan	(OC)	269	223	286	240
Korea	1,007	883	948	988	894
Philippines	4,748	4,070	4,662	4,231	4,508
Vietnam	597	139	795	280	296
Other countries	1,471	972	1,431	1,154	1,037

OC Included with "other countries."
Source: U.S. Immigration and Naturalization Service, records.

Table 48.-- SOUTHEAST ASIAN REFUGEE ARRIVALS: 1980 TO 1985

Fiscal year	Number	Fiscal year	Number
1980	2,385	1983	333
1981	1,422	1984	291
1982	642	1985	302

Source: Data from U.S. Department of Health and Human Services, Office of Refugee Resettlement, cited in Statistical Abstract of the United States for 1984-1987.

Table 49.-- PERSONS NATURALIZED, BY COUNTRIES OF FORMER ALLEGIANCE: 1980 TO 1985

[Years ended September 30]

Year	All countries	China and Taiwan	Korea	Philippines	United Kingdom	All other
1980	3,473	278	606	1,992	80	517
1981	3,946	317	730	2,014	105	780
1982	2,750	176	520	1,489	66	499
1983	6,668	534	1,032	3,693	301	1,108
1984	6,448	289	787	4,200	192	980
1985	4,291	238	561	2,434	93	965

Source: U.S. Immigration and Naturalization Service, records.

Table 50.-- RESIDENCE ONE YEAR EARLIER, 1981-1984, 1986, AND 1987 AND FIVE YEARS EARLIER, 1985

[Excludes persons in military group quarters. Based on a sample of 2,428 households (7,512 persons of all ages) for 1981-1984, 532 households (1,616 persons) for 1985, 501 households (1,535 persons) for 1986, and 497 households (1,449 persons) for 1987]

Subject	Total population 1/	Non-movers	Different house		
			Same State	Different State	Different country
Residence 1 year earlier:					
Annual average, 1981-1984	960,402	782,172	129,081	39,473	9,676
1986	1,005,362	814,999	142,950	37,078	10,335
1987	1,011,779	818,759	119,583	63,947	9,490
Residence 5 years earlier, 1985	921,236	534,131	252,978	107,359	26,768

1/ Excludes persons under 1 year old in 1981-1984, 1986 and 1987, and under 5 years old in 1985.

Source: U.S. Bureau of the Census for U.S. Bureau of Labor Statistics, Current Population Survey (March), annual, 1981 to 1987; machine-readable data file, special tabulation by Hawaii State Data Center.

Table 51.-- IN-MIGRATION, TOTAL AND CIVILIAN, BY ORIGIN: 1976 TO 1986

[Hawaii residents reporting different state or country of residence 1 year prior to survey. Excludes persons in institutions or military barracks, in Kalawao, or on Niihau]

Military status and year surveyed	Number, 1 year old and over			Percent 1/		
	All in-migrants	From U.S. Mainland	From other countries 2/	All in-migrants	From U.S. Mainland	From other countries 2/
Total:						
1976	52,001	40,590	11,411	6.5	5.1	1.4
1977	49,931	40,959	8,972	6.0	4.9	1.1
1978	49,768	39,833	9,935	5.9	4.7	1.2
1979	42,690	33,646	9,044	5.0	3.9	1.1
1980	37,312	30,082	7,230	4.1	3.3	0.8
1981	44,529	34,754	9,775	4.9	3.8	1.1
1982	46,342	38,683	7,659	5.0	4.1	0.8
1983	50,303	42,037	8,266	5.3	4.4	0.9
1984 3/ ..	48,341	42,533	5,808	5.0	4.4	0.6
1985 5/ ..	38,970	31,744	7,226	4.0	3.2	0.7
1986	38,684	31,194	7,491	3.9	3.1	0.8
Civilian: 4/						
1976	25,420	16,577	8,843	3.7	2.4	1.3
1977	25,343	19,466	5,877	3.4	2.6	0.8
1978	27,344	20,683	6,661	3.6	2.7	0.9
1979	22,191	15,278	6,913	2.8	2.0	0.9
1980	18,471	13,255	5,216	2.3	1.6	0.6
1981	23,756	16,272	7,484	2.9	2.0	0.9
1982	25,460	20,762	4,698	3.0	2.5	0.6
1983	22,908	17,199	5,709	2.7	2.0	0.7
1984 3/ ..	23,735	20,050	3,685	2.7	2.3	0.4
1985 5/ ..	17,838	12,974	4,864	2.0	1.5	0.5
1986	21,178	15,556	5,622	2.4	1.7	0.6

1/ Base excludes persons under 1 and those not reporting residence one year earlier.

2/ Includes U.S. territories and possessions.

3/ Persons in households living on military bases were omitted from the 1984 survey, although included in other years. For purposes of this table, such persons were assumed to have the same response distribution as members of military households living in the civilian community.

4/ Excludes military dependents.

5/ Revised from Data Book 1986, table 52.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulations.

Table 52.-- RESIDENCE ONE YEAR EARLIER, BY MILITARY STATUS: 1985 AND 1986

[Excludes persons under one year old and residents of military barracks, institutions, Kalawao, and Niihau. Based on a sample survey of 17,642 persons 1 year old and over in 1985 and 16,862 persons 1 year old and over in 1986]

Place of residence one year earlier	All groups	Armed forces	Military dependents	Other civilians
1985 1/				
Population 1 and over	995,306	35,821	60,386	899,099
Same house	851,010	22,971	40,781	787,258
Different house, same island	88,098	5,092	4,885	78,121
Different island	6,399	165	353	5,881
Different state	31,744	6,250	12,520	12,974
U.S. territory or possession	180	-	-	180
Different country	7,046	997	1,365	4,684
Previous residence not reported .	10,830	347	482	10,001
Migrants 2/	38,970	7,247	13,885	17,838
Percent of number reporting ...	4.0	20.4	23.2	2.0
1986				
Population 1 and over	1,007,462	37,168	62,785	907,508
Same house	865,198	23,849	43,765	797,584
Different house, same island	87,607	6,245	6,750	74,612
Different island	4,504	239	65	4,200
Different state	31,194	5,265	10,372	15,556
U.S. territory or possession	802	-	52	750
Different country	6,689	629	1,188	4,872
Previous residence not reported .	11,468	940	594	9,934
Migrants 2/	38,684	5,895	11,612	21,178
Percent of number reporting ...	3.9	16.3	18.7	2.4

1/ Revised from Data Book 1986, table 53.
2/ From different state, territory, or country.
Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 53.-- LIKELIHOOD OF OUT-MIGRATION, TOTAL AND CIVILIAN: 1980 TO 1986

[Based on the response to the question, "How likely is it that this person will be living some place other than Hawaii one year from today?" The sample excluded persons living in institutions or barracks, in Kalawao, or on Niihau]

Military status and year surveyed	Cumulative number			Cumulative percent 1/		
	Some possibility 2/	Good chance 3/	Almost certain	Some possibility 2/	Good chance 3/	Almost certain
Total:						
1980	55,989	35,521	30,740	6.1	3.9	3.3
1981	55,159	39,431	34,857	5.9	4.2	3.7
1982	56,298	40,169	32,190	5.9	4.2	3.4
1983	55,019	37,697	30,661	5.7	3.9	3.2
1984 4/	56,401	44,257	35,995	5.7	4.5	3.6
1985 5/	60,929	44,637	38,648	6.1	4.5	3.9
1986	57,509	42,132	37,095	5.7	4.2	3.7
Civilian: 6/						
1980	32,216	15,375	12,102	3.9	1.9	1.5
1981	26,388	14,265	11,614	3.1	1.7	1.4
1982	31,664	17,467	13,087	3.7	2.0	1.5
1983	29,476	16,876	10,827	3.4	2.0	1.3
1984 4/	27,109	16,590	11,911	3.1	1.9	1.3
1985 5/	28,527	14,613	12,008	3.2	1.6	1.3
1986	26,588	14,541	11,314	2.9	1.6	1.2

1/ Based on number reporting likelihood.

2/ Reporting either "Some possibility of living elsewhere," "A good chance of living elsewhere," or "Almost certain to be living elsewhere."

3/ Reporting either "A good chance of living elsewhere" or "Almost certain to be living elsewhere."

4/ Persons in households living on military bases were omitted from the 1984 survey, although included in other years. For purposes of this table, such persons were assumed to have the same response distribution as members of military households living in the civilian community.

5/ Revised from Data Book 1986, table 54.

6/ Excluding members of the armed forces and their dependents.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program.

Table 54.-- LIKELIHOOD OF OUT-MIGRATION, BY MILITARY STATUS: 1985 AND 1986

[Based on response to question, "How likely is it that this person will be living some place other than Hawaii one year from today?" asked of samples of 17,934 persons in 1985 and 17,107 persons in 1986. Excludes persons living in institutions or barracks, in Kalawao, or on Niihau]

Likelihood of out-migration	All groups	Armed forces	Military dependents	Other civilians
1985 1/				
Total	1,011,882	35,821	64,281	911,780
Almost certain to be living in Hawaii	936,670	23,230	43,539	869,901
Some possibility of living elsewhere	16,292	712	1,666	13,914
A good chance of living elsewhere ...	5,989	1,129	2,255	2,605
Almost certain to be living elsewhere	38,648	10,311	16,329	12,008
Not reported	14,283	438	492	13,353
1986				
Total	1,022,746	37,169	66,211	919,366
Almost certain to be living in Hawaii	946,243	24,670	44,421	877,152
Some possibility of living elsewhere	20,414	1,699	3,441	15,274
A good chance of living elsewhere ...	5,037	784	1,026	3,227
Almost certain to be living elsewhere	37,095	9,131	16,650	11,314
Not reported	13,956	885	672	12,399

1/ Revised from Data Book 1986, table 55.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Section 2

VITAL STATISTICS AND HEALTH

This section presents data on births, deaths, marriages, divorces, diseases and accidents, nutrition, substance abuse, height and weight, hospitals, dental care, and health personnel.

Vital indexes generally reflect the high health standards of Hawaii. Expectation of life at birth in 1984-86 was 75.37 years for males and 80.92 years for females. There were 5,788 resident deaths in 1986, or 5.4 per 1,000 resident population. Deaths under one year of age per 1,000 live births numbered 10.9 in 1986. Diseases of the heart have accounted for almost a third of all deaths in recent years; cancer, for almost one-fourth. Resident live births in 1986 numbered 18,253, or 17.2 per 1,000 resident population. The total fertility rate for civilians fell from 3,360 per 1,000 women in 1960 to 2,461 in 1970 and 1,871 in 1980. Fully 98 percent of all babies were born in hospitals in 1986, and 22 percent were born to military couples. One out of five births was to an unmarried woman. There were 7,178 fetal deaths in 1986, including 5,700 elective abortions. Marriages numbered 16,219 in 1986, with about 30 percent accounted for by nonresidents. Divorces reached a 1986 total of 4,674. The State had 23 acute care hospitals (with 2,887 beds), 36 long-term care facilities (with 2,977 beds), and nine specialty care facilities (with 956 beds) in 1987. There were 2,150 physicians and surgeons, 847 dentists, 7,088 professional nurses, and 469 pharmacists licensed and living in Hawaii as of November 1986. Acute conditions per 100 persons numbered 246 in 1985, with respiratory conditions the most common complaint (at 186 cases per 100 persons). Among chronic conditions reported in the 1985 survey data, the most frequently mentioned were hypertension without heart involvement (8.0 per 100 persons), hayfever (6.6), and impairments of the back or spine (5.1). The most common communicable diseases reported to authorities in 1986 were scarlet fever, with 4,892 cases, and gonorrhea, with 1,619, but the most fatal was AIDS (15 deaths). State mental health facilities served 8,342 patients in 1986, but the number of in-patients at the end of the year was only 252. Dental health was only fair: according to a 1979 survey, 275,000 residents had not visited a dentist within the previous year, and 176,000 reported one or more dental problems, chiefly cavities. Among persons 18 years old and over in 1984, 53 percent used alcohol, eight percent were heavy drinkers, 43 percent used drugs, and three percent were heavy drug users. The average adult male was 67.5 inches tall and weighed 159.5 lbs.; the average adult female was 62.6 inches and 127.9 lbs.

The major sources for data on vital statistics and health are the annual statistical reports of the Hawaii State Department of Health. Long-term trends are traced in Historical Statistics of Hawaii, Section 2. Sections 2 and 3 of the Statistical Abstract of the United States: 1987 contain similar data for the nation as a whole.

Table 55.-- BIRTHS AND DEATHS: 1970 TO 1986

Calendar year	Resident births 1/	Resident deaths 1/	Rates per 1,000 resident population 2/		Rates per 1,000 live births 3/		
			Births	Deaths	Illegitimate births	Fetal deaths 4/	Infant deaths 5/
1970 ...	16,361	3,971	21.2	5.1	95.8	20.6	19.1
1971 ...	15,780	4,130	19.7	5.2	88.4	23.5	16.0
1972 ...	15,364	4,245	18.5	5.1	93.0	22.8	17.5
1973 ...	15,328	4,356	18.0	5.1	104.0	16.4	13.7
1974 ...	15,472	4,286	17.8	4.9	108.8	16.3	16.0
1975 ...	15,689	4,272	17.7	4.8	123.2	18.9	13.7
1976 ...	16,292	4,349	18.0	4.8	125.0	20.8	11.2
1977 ...	16,874	4,349	18.4	4.7	143.3	21.6	12.3
1978 ...	16,717	4,508	17.9	4.8	160.1	13.5	12.0
1979 ...	17,513	4,791	18.4	5.0	163.5	13.1	10.9
1980 ...	18,129	4,903	18.7	5.1	175.6	15.3	10.8
1981 ...	18,174	4,927	18.5	5.0	181.8	13.1	10.5
1982 ...	18,675	5,123	18.7	5.1	186.3	12.7	8.9
1983 ...	19,090	5,409	18.7	5.3	197.8	11.5	10.0
1984 ...	18,667	5,571	18.0	5.4	191.8	10.0	10.9
1985 ...	18,267	5,751	17.4	5.5	201.3	9.7	9.1
1986 ...	18,253	5,788	17.2	5.4	203.9	10.9	9.2

1/ Events occurring in Hawaii. Data include births to military couples and deaths of armed forces and their dependents, but exclude nonresident births and deaths, as well as resident births and deaths occurring out of State.

2/ Based on estimates in DPED, Statistical Reports 172 and 195.

3/ Place of occurrence basis.

4/ 20 weeks gestation and over. Includes elective abortions.

5/ Under 1 year of age.

Source: Hawaii State Department of Health, Statistical Report (annual), and records.

Table 56.-- BIRTHS AND BIRTH RATES, BY MILITARY STATUS: 1976 TO 1986

[Place of occurrence basis]

Subject and year	All groups	Civilians			Armed forces and dependents
		All civilians	Military dependents	Other civilians	
Live births:					
1976	16,409	16,409	3,803	12,606	3,803
1977	16,983	16,983	3,771	13,212	3,771
1978	16,762	16,762	3,656	13,106	3,656
1979	17,568	17,568	3,797	13,771	3,797
1980	18,216	18,216	3,750	14,466	3,750
1981	18,230	18,230	3,502	14,728	3,502
1982	18,735	18,735	4,007	14,728	4,007
1983	19,164	19,164	4,093	15,071	4,093
1984	18,756	18,756	3,976	14,780	3,976
1985	18,329	18,329	4,043	14,286	4,043
1986	18,341	18,341	3,952	14,389	3,952
Birth rates: 1/					
1976	16.9	18.0	56.8	14.9	30.5
1977	17.1	18.1	58.0	15.2	31.0
1978	16.5	17.5	59.8	14.6	30.6
1979	16.8	17.8	58.9	15.0	31.0
1980	17.3	18.3	58.5	15.5	30.7
1981	17.1	18.1	54.5	15.6	29.0
1982	17.2	18.1	60.1	15.2	33.0
1983	17.2	18.1	61.8	15.2	33.7
1984	16.5	17.3	59.3	14.6	32.0
1985	15.9	16.8	62.9	13.9	33.5
1986	15.6	16.4	59.7	13.7	31.8

1/ Per 1,000 de facto population in each group, based on estimates in DPED, Statistical Reports 172 and 195, as revised.

Source: Hawaii State Department of Health, Research and Statistics Office, records.

Table 57.-- DEATHS AND DEATH RATES, BY MILITARY STATUS: 1976 TO 1986

[Place of occurrence basis]

Subject and year	All groups	Armed forces	Civilians 1/			Armed forces and dependents
			All civilians	Military dependents	Other civilians	
Deaths:						
1976	4,717	67	4,650	99	4,551	166
1977	4,724	76	4,648	93	4,555	169
1978	4,852	80	4,772	85	4,687	165
1979	5,137	85	5,052	86	4,966	171
1980	5,204	69	5,135	82	5,053	151
1981	5,269	73	5,196	83	5,113	156
1982	5,495	74	5,421	86	5,335	160
1983	5,725	97	5,628	85	5,543	182
1984	5,942	73	5,869	86	5,783	159
1985	6,116	63	6,053	83	5,970	146
1986	6,171	59	6,112	85	6,027	144
Death rates: 2/						
1976	4.9	1.2	5.1	1.5	5.4	1.3
1977	4.8	1.3	5.0	1.4	5.2	1.4
1978	4.8	1.4	5.0	1.4	5.2	1.4
1979	4.9	1.5	5.1	1.3	5.4	1.4
1980	4.9	1.2	5.1	1.3	5.4	1.2
1981	4.9	1.3	5.2	1.3	5.4	1.3
1982	5.0	1.3	5.2	1.3	5.5	1.3
1983	5.1	1.8	5.3	1.3	5.6	1.5
1984	5.2	1.3	5.4	1.3	5.7	1.3
1985	5.3	1.1	5.5	1.3	5.8	1.2
1986	5.2	1.0	5.5	1.3	5.7	1.2

1/ Death rates for military dependents based on 1970 and 1980 age and sex composition of military dependents and 1970 and 1980 age-sex-specific death rates for all civilians. Deaths of civilians other than military dependents calculated as residual.

2/ Per 1,000 de facto population in each group, based on estimates in DPED, Statistical Reports 172 and 195, as revised.

Source: Hawaii State Department of Health, Research and Statistics Office, records.

Table 58.-- LIVE BIRTHS, STANDARD FETAL DEATHS, AND ELECTIVE ABORTIONS: 1970 TO 1986

[Place of residence basis]

Calendar year	Total deliveries		Live births	Standard fetal deaths	Elective abortions 2/
	Number	Rate 1/			
1970 3/ ...	20,578	26.7	16,361	1,458	2,759
1971	21,476	26.8	15,780	1,575	4,121
1972	21,468	25.9	15,364	1,582	4,522
1973	21,374	25.1	15,328	1,560	4,486
1974	21,071	24.3	15,472	1,572	4,027
1975	21,481	24.2	15,689	1,476	4,316
1976	22,915	25.3	16,292	1,675	4,948
1977	23,502	26.6	16,874	1,578	5,050
1978	23,990	25.8	16,717	1,467	5,806
1979	25,213	26.4	17,513	1,683	6,017
1980	26,241	27.1	18,129	1,716	6,396
1981	26,452	27.0	18,174	1,661	6,617
1982	26,468	26.5	18,675	1,618	6,175
1983	26,709	26.2	19,090	1,627	5,992
1984	25,573	24.7	18,667	1,629	5,277
1985	25,335	24.1	18,267	1,473	5,595
1986	25,312	23.8	18,253	1,412	5,647

1/ Per 1,000 resident population, July 1. From DPED Statistical Reports 172 and 195.

2/ Most legal restrictions on abortion were abolished as of March 11, 1970.

3/ For earlier years, 1952-1969, see Data Book 1986, table 59.

Source: Hawaii State Department of Health, Annual Report, Statistical Supplement, 1970-1986.

Table 59.-- BIRTHS AND DEATHS, BY PLACE OF OCCURRENCE AND RESIDENCE: 1982 TO 1986

Event and year	Occurring in Hawaii				Hawaii residents	
	Total	Resident	Non-resident	Not reported	Total	Out of State 1/
Births:						
1982 ...	18,734	18,675	57	2	18,704	29
1983 ...	19,164	19,090	73	1	19,124	34
1984 ...	18,756	18,667	89	-	18,706	39
1985 ...	18,329	18,267	62	-	18,302	35
1986 ...	18,341	18,253	86	2	18,277	24
Deaths:						
1982 ...	5,495	5,123	370	2	5,188	65
1983 ...	5,725	5,409	315	1	5,478	69
1984 ...	5,942	5,571	369	2	5,639	68
1985 ...	6,116	5,751	363	2	5,825	74
1986 ...	6,171	5,788	382	1	5,837	49

1/ Mainland U.S., U.S. territories and possessions, and Canada.

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 60.-- FERTILITY RATES, BY MILITARY STATUS: 1960, 1970, AND 1980

[Military dependents are included in the military category]

Type of rate and military status	1960	1970	1980
Crude birth rate, all groups 1/	27.2	21.4	18.8
Civilian	22.9	19.1	16.5
Military	48.8	35.1	35.0
General fertility rate, all groups 2/	127.8	96.1	78.7
Civilian	106.2	84.8	68.9
Military	250.5	169.5	147.5
Total fertility rate, all groups 3/	3,886.5	2,728.5	2,084.0
Civilian	3,360.5	2,461.5	1,871.0
Military	6,480.5	4,275.0	3,496.0
Gross reproduction rate, all groups 4/ ...	1,884.0	1,318.0	1,006.5
Civilian	1,628.0	1,189.5	903.5
Military	3,140.0	2,065.5	1,688.0

1/ The annual number of live births per 1,000 resident population.

2/ The annual number of live births per 1,000 women of childbearing age.

3/ The average number of children to whom 1,000 women would give birth according to a set of fertility rates providing the women survive the childbearing years.

4/ The average number of girls to whom 1,000 women would give birth according to a set of fertility rates providing the women survive the childbearing years.

Source: Calculations by Eleanor C. Nordyke, Community Population Specialist, East-West Population Institute, based on vital statistics from the Hawaii State Department of Health and special tabulations of decennial census data by military status.

Table 61.-- CHARACTERISTICS OF RESIDENT BIRTHS: 1983 TO 1986

[Excludes births to Hawaii residents occurring out of state]

Subject	1983	1984	1985	1986
Number of resident births	19,090	18,667	18,267	18,253
City and County of Honolulu	14,712	14,375	14,021	14,074
Percent on Oahu	77.1	77.0	76.8	77.1
Hawaii County	1,921	1,895	1,873	1,800
Kauai County	836	778	778	822
Maui County (incl. Kalawao)	1,621	1,619	1,595	1,557
Percent attended by M.D. or O.D. in hospital 1/	98.1	98.3	98.0	98.3
Males per 100 females	107.4	107.1	108.2	105.7
Median weight of single births (grams)	3,292	3,293	3,307	3,306
Percent low birth weight (under 2,500 grams)	6.4	7.3	6.6	6.1
Percent single births under 40 weeks gestation	49.7	51.7	51.3	51.3
Percent plural	1.6	1.8	1.8	2.0
Percent with 1 or more congenital malformations	1.2	1.1	1.0	1.1
Percent illegitimate	19.8	19.2	20.0	20.4
Percent with prenatal visit in first three months	73.6	75.4	74.7	76.4
Percent first child born to mother	32.3	32.4	31.9	31.6
Percent first child born alive to mother	43.1	42.6	41.7	42.5
Median age of mothers (years)	25	25	26	26
Median age of known fathers (years)	29	29	29	29

1/ Place of occurrence basis.

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 62.-- MEDIAN AND MEAN AGE OF MOTHERS, BY MILITARY STATUS OF FATHERS, FOR RESIDENT BIRTHS OCCURRING IN HAWAII: 1960 TO 1986

Year	Median age (years)			Mean age (years)		
	All births	Military	Civilian	All births	Military	Civilian
1960 1/ ...	26.0	...	...	26.7	...	...
1970	25.0	24.3	25.4	25.8	25.2	25.9
1980	26.0	24.6	26.4	26.3	25.2	26.6
1984	26.3	24.5	26.9	26.7	25.3	27.1
1986	26.7	24.9	27.3	27.0	25.7	27.4

1/ Includes nonresident births occurring in Hawaii. Not available by military status.

Source: Calculated by DBED from tabulations by 5-year age periods supplied by Hawaii State Department of Health.

Table 63.-- LIVE BIRTHS OCCURRING IN HAWAII, SINGLE AND PLURAL: 1980 TO 1986

[Individuals, not sets. Excludes stillbirths]

Year	All types	Single births	Twins	Triplets	Quadruplets 1/	Unknown
1980	18,216	17,920	280	9	4	3
1981	18,230	17,910	312	5	2	1
1982	18,734	18,400	331	3	-	-
1983	19,164	18,866	292	6	-	-
1984	18,756	18,423	333	-	-	-
1985	18,329	18,004	325	-	-	-
1986	18,341	17,974	356	6	4	1

1/ One set each in 1980, 1981 (only 2 born alive), and 1986. The first recorded quadruplet birth in Hawaii occurred in 1930. No quintuplet or higher-order births have ever been recorded.

Source: Hawaii State Department of Health, records; Honolulu Star-Bulletin, April 16, 1930, p. 3; Honolulu Advertiser, June 16, 1931, p. 7, and March 14, 1980, p. A-1.

Table 64.-- RESIDENT BIRTHS, MIXED AND UNMIXED, BY MILITARY STATUS OF FATHER: 1986

[Based on data for 18 specified races]

Military status of father	Total births	Unmixed	Mixed 1/			Not certain 2/
			Total	Part Haw'n	No Haw'n blood	
All groups	18,253	8,281	8,937	5,503	3,434	1,035
Military	3,923	3,038	881	189	692	4
Civilian 3/	14,330	5,243	8,056	5,314	2,742	1,031
PERCENT DISTRIBUTION						
All groups	100.0	45.4	49.0	30.1	18.8	5.7
Military	100.0	77.4	22.5	4.8	17.6	0.1
Civilian 3/	100.0	36.6	56.2	37.1	19.1	7.2

1/ Includes all Part Hawaiian births, including those in which both parents were Part Hawaiian.

2/ One or both parents of unspecified race (unless one was Part Hawaiian) or both parents classified as "other."

3/ Includes births in which father's military status was not reported.

Source: Hawaii State Department of Health, Research and Statistics Office, records.

Table 65.-- CHILDREN EVER BORN, BY MARITAL STATUS AND AGE OF MOTHERS: 1980

[For earlier years, 1950-1970, see Data Book 1984, table 69].

Subject	15 years and over	15 to 24 years	25 to 34 years	35 to 44 years	45 years and over
All women	360,707	87,008	88,168	55,285	130,246
Childless	129,611	69,521	32,274	9,411	18,405
Mothers	231,096	17,487	55,894	45,874	111,841
Children ever born 1/	684,779	26,273	117,508	137,037	403,961
Per 1,000 women	1,898	302	1,333	2,479	3,102
Single (never married) women	92,704	64,345	17,816	4,273	6,270
Childless	85,754	60,483	15,701	3,750	5,820
Mothers	6,950	3,862	2,115	523	450
Children ever born 1/	10,142	4,882	3,268	992	1,000
Per 1,000 single women	109	76	183	232	159
Women ever married	268,003	22,663	70,352	51,012	123,976
Childless	43,857	9,038	16,573	5,661	12,585
Mothers	224,146	13,625	53,779	45,351	111,391
Children ever born 1/	674,637	21,391	114,240	136,045	402,961
Per 1,000 women ever married	2,517	944	1,624	2,667	3,250

1/ Excluding stillbirths.

Source: U.S. Bureau of the Census, 1980 Census of Population, Detailed Population Characteristics, Hawaii (October 1983), table 211.

Table 66.-- MOST COMMON NAMES ON BIRTH CERTIFICATES, BY SEX: 1986

[A total of 5,262 first names, including variant spellings, was reported for the 18,341 babies born in Hawaii in 1986. For leading names in 1909-1914, 1950, and 1983, see Data Book 1984, table 72]

Rank	Boys' names 1/		Girls' names 2/	
	Name	Number	Name	Number
1	Michael	266	Ashley	222
2	Christopher	224	Jessica	143
3	Ryan	179	Jennifer	135
4	Matthew	172	Nicole	132
5	Joshua	171	Amanda	91
6	Brandon	156	Michelle	87
7	Justin	154	Tiffany	87
8	David	130	Sarah	80
9	James	127	Stephanie	65
10	John	110	Christina	63

1/ The shortest were B and D (one of each). The longest was Kananīomaunalokukiekiema.

2/ The shortest was K; the longest, Kauanceokalaniulumahiehi.

Source: Hawaii State Department of Health, Research and Statistics Office, April 29, 1987.

Table 67.-- MOST COMMON SURNAMES IN THE OAHU TELEPHONE DIRECTORY: 1978 AND 1987

Rank	1978		1987	
	Name	Columns	Name	Columns
1	Lee	18.5	Lee	20.67
2	Wong	16.0	Wong	17.12
3	Young	11.0	Young	11.33
4	Chang	10.5	Chang	10.67
5	Smith	9.5	Kim	10.33
6	Chun	9.5	Chun	10.0
7	Ching	8.75	Smith	9.75
8	Kim	8.67	Ching	8.88
9	Nakamura	8.5	Lum (tie)	7.5
10	Lum	7.5	Johnson (tie)	7.5

Source: Tabulations by Bob Krauss reported in *Honolulu Advertiser*, November 25, 1978 p. A-11, and *January 15, 1987*, p. A-3.

Table 68.-- MOST COMMON SURNAMES ON BIRTH AND DEATH CERTIFICATES: 1986

Rank	Birth certificates		Death certificates	
	Surname	Births	Surname	Deaths
1	Lee	106	Lee	43
2	Smith	84	Wong	37
3	Wong	75	Chang	35
4	Johnson	61	Nakamura	25
5	Kim	53	Young	25
6	Young	50	Ching	24
7	Brown	50	Chun	24
8	Williams	47	Smith	22
9	Silva	43	Silva	22
10	Higa	38	Chung	18

Source: Hawaii State Department of Health, special tabulation.

Table 69.-- AVERAGE LIFETIME, BY SEX: 1959-61 TO 1984-86

Period	Years			Rank (50 States and D.C.)		
	Both sexes	Male	Female	Both sexes	Male	Female
1959-1961	71.55	69.79	74.01	7	(NA)	(NA)
1969-1971	73.60	71.02	76.79	1	1	3
1979-1981	77.02	74.08	80.33	1	1	1
1984-1986 1/ .	77.98	75.37	80.92	(NA)	(NA)	(NA)

NA Not available.

1/ Average lifetime for all States combined in 1985 was 74.7 years for both sexes combined, 71.2 years for males, and 78.2 years for females.

Source: U.S. Department of Health, Education, and Welfare, National Center for Health Statistics, Life Tables: 1959-61, Vol. 2, No. 12, Hawaii State Life Tables: 1959-61 (June 1966), p. 160, and unpublished tabulations; U.S. Department of Health, Education, and Welfare, National Center for Health Statistics, U.S. Decennial Life Tables for 1969-71, Vol. II, No. 12, Hawaii State Life Tables: 1969-71 (June 1975), p. 12-6; and U.S. Department of Health and Human Services, National Center for Health Statistics, U.S. Decennial Life Tables for 1979-81, Vol. II, State Life Tables, No. 12, Hawaii (December 1985), p. 12-3; Robert W. Gardner, East-West Population Institute, Complete Life Tables by Age and Sex for Hawaii, 1984-86 (unpublished, September 11, 1987); U.S. Department of Health and Human Services, National Center for Health Statistics, "Advance Report of Final Mortality Statistics, 1985," Monthly Vital Statistics Report, Vol. 36, No. 5, Supp., August 28, 1987, pp. 2-3.

Table 70.-- SELECTED LIFE TABLE VALUES, BY SEX: 1979-1981

Age in years	Of 100,000 born alive				Average remaining lifetime (years)	
	Number living at beginning of year of age		Number dying during year of age			
	Male	Female	Male	Female	Male	Female
0-1	100,000	100,000	1,121	889	74.08	80.33
1-2	98,879	99,111	93	64	73.92	80.05
5-6	98,607	98,920	38	25	70.11	76.20
10-11 ...	98,467	98,828	17	13	65.21	71.27
15-16 ...	98,303	98,733	81	34	60.31	66.34
20-21 ...	97,755	98,513	137	54	55.64	61.48
25-26 ...	97,054	98,235	131	52	51.02	56.65
30-31 ...	96,430	97,981	132	58	46.34	51.79
35-36 ...	95,720	97,644	155	85	41.66	46.96
40-41 ...	94,857	97,134	218	133	37.02	42.19
45-46 ...	93,529	96,341	327	190	32.50	37.52
50-51 ...	91,508	95,250	582	277	28.16	32.92
55-56 ...	88,125	93,616	759	420	24.14	28.44
60-61 ...	83,935	91,126	1,051	629	20.22	24.15
65-66 ...	77,746	87,417	1,483	930	16.61	20.06
70-71 ...	69,466	81,987	1,962	1,331	13.28	16.21
75-76 ...	58,516	74,108	2,536	2,009	10.28	12.65
80-81 ...	44,728	62,633	3,084	2,725	7.66	9.49
85-86 ...	28,579	47,208	3,168	3,831	5.56	6.73
90-91 ...	13,630	27,228	2,454	3,681	3.99	4.84
95-96 ...	4,201	11,023	1,099	2,405	2.98	3.48
100-101 .	779	2,701	248	761	2.49	2.81
105-106 .	101	448	36	147	2.22	2.44

Source: U.S. Department of Health and Human Services, National Center for Health Statistics, U.S. Decennial Life Tables for 1979-81, Vol. II, State Life Tables, No. 12, Hawaii, DHHS Pub. No. (PHS) 86-1151-12 (December 1985), tables 2 and 3.

Table 71.-- DEATHS OCCURRING IN HAWAII, BY PLACE OF DEATH: 1968 AND 1986

Year	All deaths	Hos-pital	Nursing or care home	Other specif. places 1/	Home, street, etc.	Un-known
1968	4,275	3,274	152	113	736	-
1986	6,171	4,205	435	165	1,364	2

1/ Clinic, doctor's office, enroute to Hawaii, etc.
Source: Hawaii State Department of Health, records.

Table 72.-- CHARACTERISTICS OF RESIDENT DEATHS: 1983 TO 1986

[Excludes deaths of Hawaii residents occurring out of state]

Subject	1983	1984	1985	1986
Number of resident deaths	5,409	5,571	5,751	5,788
City and County of Honolulu	4,070	4,122	4,294	4,248
Hawaii County	590	707	715	719
Kauai County	284	272	256	313
Maui County (incl. Kalawao)	465	470	486	508
Males per 100 females	143.1	146.7	146.3	138.0
Median age (years)	70.6	71.1	71.9	73.2
Percent married	48.4	47.4	47.5	47.0
Deaths under 1 year	175	186	159	168
Per 1,000 live births	9.2	10.0	8.7	9.2
Fetal deaths 1/	7,619	6,906	7,068	7,178
Per 1,000 deliveries	285	270	279	281
Fetal deaths, 20 or more weeks gestation 2/	219	178	177	202
Per 1,000 live births	11.4	9.5	9.7	11.0
Standard fetal deaths 3/	1,627	1,629	1,473	1,478
Elective abortions	5,992	5,277	5,595	5,700
Per 1,000 live births	313.9	282.7	306.3	312.3

1/ Includes elective abortions.
2/ Place of occurrence basis. Includes elective abortions if 20 weeks or more.
3/ Excludes elective abortions.
Source: Hawaii State Department of Health, Statistical Report (annual).

Table 73.-- CAUSE OF DEATH, BY SEX: 1986

[Place of residence basis]

Cause of death	Both sexes	Males	Females
Total deaths	5,788	3,356	2,432
Tuberculosis	6	4	2
Syphilis	-	-	-
Other infective	68	38	30
Malignant neoplasm	1,396	790	606
Digestive organs	438	272	166
Respiratory system	353	233	120
Breast	104	1	103
Genital organs	148	83	65
Urinary organs	51	31	20
Leukemia	39	26	13
Other	263	144	119
Diabetes mellitus	163	86	77
Heart disease	1,890	1,116	774
Rheumatic	22	12	10
Hypertensive	62	33	29
Ischemic	1,135	685	450
Other heart	671	386	285
Hypertension	21	11	10
Cerebrovascular disease	400	204	196
Arteriosclerosis	47	26	21
Aneurysm	60	41	19
Other circulatory	13	6	7
Influenza/pneumonia	240	135	105
Bronchitis/emphysema/asthma	61	33	28
Peptic ulcer	14	12	2
Cirrhosis of liver	68	40	28
Nephritis and nephrosis	45	24	21
Pregnancy, birth & puerperium	1	-	1
Congenital anomalies	51	31	20
Perinatal conditions	85	51	34
Ill-defined conditions	53	24	29
Other diseases	690	393	297
Accidents	215	150	65
Motor vehicles	115	79	36
Other	100	71	29
Suicide	110	75	35
Homicide & legal intervention	47	31	16
Other external causes	44	35	9

Source: Hawaii State Department of Health, Research and Statistics Office, records.

Table 74.-- MAJOR CAUSES OF DEATH: 1908-1912 TO 1986

[Annual averages. Excludes armed forces, 1940-1962]

Year	All causes	Major causes 1/					
		Tuberculosis	Malignant neoplasms	Diseases of heart	Cerebrovascular disease	Influenza, pneumonia	Gastritis, enteritis, etc. 2/
Number:							
1908-12	3,100	365	81	181	70	335	305
1918-22	4,430	499	164	274	165	896	486
1928-32	4,073	400	236	506	233	522	277
1938-42	3,075	263	292	683	248	230	41
1948-52	2,923	108	435	868	258	102	23
1958-62	3,377	22	575	1,111	296	135	15
1970 ..	4,211	14	764	1,386	401	173	...
1980 ..	4,903	15	1,141	1,544	376	178	...
1986 ..	5,788	6	1,396	1,890	400	240	...
Percent:							
1908-12	100.0	11.8	2.6	5.8	2.3	10.8	9.8
1918-22	100.0	11.3	3.7	6.2	3.7	20.2	11.0
1928-32	100.0	9.8	5.8	12.4	5.7	12.8	6.8
1938-42	100.0	8.6	9.5	22.2	8.1	7.5	1.3
1948-52	100.0	3.7	14.9	29.7	8.8	3.5	0.8
1958-62	100.0	0.7	17.0	32.9	8.8	4.0	0.4
1970 ..	100.0	0.3	18.1	32.9	9.5	4.1	...
1980 ..	100.0	0.3	23.3	31.5	7.7	3.6	...
1986 ..	100.0	0.1	24.1	32.7	6.9	4.1	...
Rate: 3/							
1908-12	1,601	188	42	93	36	173	158
1918-22	1,663	187	62	103	62	336	182
1928-32	1,105	109	64	137	63	142	75
1938-42	739	63	70	164	60	55	10
1948-52	616	23	92	183	54	21	5
1958-62	582	4	99	192	51	23	3
1970 ..	546	2	99	180	52	22	...
1980 ..	506	2	118	159	39	18	...
1986 ..	545	1	131	178	38	23	...

Continued on next page.

Table 74.-- MAJOR CAUSES OF DEATH: 1908-1912 TO 1986 -- Con.

1/ Includes the three leading causes in each listed year.

2/ Gastritis, duodenitis, enteritis, and colitis, except diarrhea of newborn. Not separately reported in 1970 and later years.

3/ Per 100,000 resident population, 1908-1939 and 1970-1986; per 100,000 civilian population, 1940-1962. Data for periods before 1970 based on 5-year average populations. Population estimates through 1939 from Robert C. Schmitt, Historical Statistics of Hawaii, p. 10; 1940 and later years from DPED, Statistical Reports 172 and 195. Rates not adjusted for age.

Source: Hawaii State Department of Health, "Mortality Trends in Hawaii, 1908-1962," R & S Report, No. 2 (April 1973), and Statistical Report for 1970 (pp. 33-34), 1980 (pp. 23-25), and 1986 (forthcoming).

Table 75.-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION: 1981 TO 1986

[For annual data, 1956-1980, see Data Book 1980, table 36, and Data Book 1982, table 41]

Method	1981	1982	1983	1984	1985	1986
All methods	5,269	5,495	5,725	5,942	6,116	6,171
Burial	2,284	2,324	2,513	2,517	2,610	2,512
Cremation	2,342	2,515	2,588	2,808	2,886	3,002
Removal	613	613	594	587	586	614
Entombment	23	33	25	26	27	41
Educational purpose	-	-	-	-	-	-
Other	-	-	3	-	-	-
Unknown	7	10	2	4	7	2

Source: Hawaii State Department of Health, Statistical Report for 1981-1985, and records.

Table 76.-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION: ANNUAL AVERAGES, 1939 TO 1986

Years	All deaths	Burial	Cremation	Removal	All others 1/
ANNUAL AVERAGES					
1939	3,214	(NA)	600	(NA)	(NA)
1940-1955	3,293	(NA)	(NA)	(NA)	(NA)
1956-1962 2/	3,326	1,918	1,219	189	
1963-1967 2/	3,731	2,070	1,364	279	18
1968-1972	4,299	2,251	1,571	448	29
1973-1977	4,639	2,265	1,803	545	26
1978-1982 3/	5,193	2,306	2,255	590	43
1983-1986	5,988	2,538	2,821	595	34
PERCENT DISTRIBUTION					
1939	100.0	(NA)	18.7	(NA)	(NA)
1940-1955	100.0	(NA)	(NA)	(NA)	(NA)
1956-1962 2/	100.0	57.7	36.6	5.7	
1963-1967 2/	100.0	55.5	36.6	7.5	0.5
1968-1972	100.0	52.4	36.5	10.4	0.7
1973-1977	100.0	48.8	38.9	11.8	0.6
1978-1982 3/	100.0	44.4	43.4	11.4	0.8
1983-1986	100.0	42.4	47.1	9.9	0.6

NA Not available.

1/ Entombment, educational purpose, lost at sea, other method, or unknown.

2/ Excludes armed forces.

3/ Cremations overtook burials in 1981.

Source: "Eternal it flows ...," The Sales Builder, March 1940, pp. 3-15 (at p. 14). Hawaii State Department of Health, Statistical Report for 1956-1962, 1964-1967, and 1974-1985; "Vital Statistics and Population of Hawaii, 1900 to 1973," R&S Report, No. 5 (June 1974); and unpublished tabulations.

Table 77.-- CATASTROPHIC MORTALITY: 1977 TO 1987

[Includes all accidents, natural disasters, and other events causing five or more deaths. Excludes out-of-state deaths to Hawaii residents, such as the Chicago airplane crash which killed 273 persons, including 10 residents of Hawaii, on May 25, 1979. Complete through December 27, 1987]

Date	Place	Kind of disaster	Deaths
1977: April 13 1/ ...	At sea off Waikiki	Airplane crash	5
1978: Dec. 9 (?)	At sea off West Hawaii .	Ship disappearance ...	10
1979: Feb. 11 (?) ...	At sea out of Hana	Boat disappearance ...	5
Nov. 24	Near Wahiawa, Oahu	2-car auto crash	5
1980: May 18	Molokai	Helicopter crash	7
1981: Dec. 5	Pearl Harbor	Airplane crash	11
1982: July 24	Near Wahiawa, Oahu	3-car auto crash	5
1983: June 16	Honopu, Kauai	Airplane crash	14
1985: Jan. 15	540 mi. N. of Honolulu .	Helicopter crash	7
1987: Dec. 23	At sea W. of Molokai ...	Airplane disappearance	8

1/ For earlier events, see Robert C. Schmitt, "Catastrophic Mortality in Hawaii," *The Hawaiian Journal of History*, Vol. 3, 1969, pp. 66-86, and "Catastrophic Mortality in Hawaii, 1969-1976," unpublished paper filed in DBED Library, 1976.

Source: DBED file of newspaper accounts.

Table 78.-- PERSONS ON THE STATE BLIND REGISTER, BY COUNTIES: 1985 AND 1986

Date	State total	City and Co. of Honolulu	County of Hawaii	County of Kauai	County of Maui
1985: June 30	1,899	1,565	127	54	153
1986: June 30	2,000	1,631	147	66	156

Source: Hawaii State Department of Social Services and Housing, Services for the Blind Branch, records.

Table 79.-- PERCENT OF ADULT POPULATION AFFECTED BY SPECIFIED HEALTH RISK FACTORS, BY ISLANDS: 1986

[Excludes inmates of institutions, armed forces living on military bases, and all persons less than 18 years old]

Health risk factor	State	Hawaii	Maui	Molokai, Lanai	Oahu	Kauai
Inadequate seatbelt use ...	9.2	11.4	14.7	8.0	7.5	26.0
Current hypertension	15.9	21.2	14.7	15.5	15.4	16.0
Sedentary lifestyle	48.3	40.7	43.5	40.8	49.7	49.5
Obesity	16.8	18.3	15.8	21.5	16.0	28.4
Smoking	24.1	32.2	20.7	19.7	23.6	23.0
Smokeless tobacco	1.2	0.4	0.7	0.7	1.2	2.5
Acute drinking	20.1	20.8	18.6	18.0	20.2	19.5
Chronic drinking	9.6	10.4	11.3	10.2	9.2	10.4
Drinking and driving	3.3	2.6	4.0	4.3	3.1	7.2

Source: Hawaii State Department of Health, Hawaii Health Messenger, Summer 1987, revised.

Table 80.-- ACUTE CONDITIONS: 1986

Condition	Incidence of condition per year	Conditions per 100 persons per year
All acute conditions	2,151,954	210.2
Infective parasitic diseases	142,326	13.9
Respiratory condition	1,510,339	147.5
Digestive system condition	47,658	4.6
Injuries	189,045	18.5
All other acute conditions	262,586	25.6

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 81.-- CHRONIC CONDITIONS: 1986

Selected chronic conditions	Prevalence of condition	Conditions per 1,000 persons
Heart condition	20,065	19.6
Impairment of back or spine	52,127	50.9
Hypertension without heart involvement	78,942	77.1
Arthritis/rheumatism	31,597	30.8
Hearing impairment	34,866	34.0
Asthma with or without hayfever	35,311	34.5
Diabetes	18,618	18.2
Mental and nervous condition	11,669	11.4
Visual impairment	11,194	10.9
Malignant neoplasms	6,577	6.4
Chronic and allergic skin conditions	44,704	43.6
Chronic sinusitis	26,363	25.7
Hayfever without asthma	58,149	56.8
Stomach ulcer	5,978	5.8
Bronchitis/emphysema	15,738	12.8
Benign and unspecified neoplasms	4,219	4.1
Hemorrhoids	11,348	11.1
Thyroid/goiter	7,995	7.8
Varicose veins	7,097	6.9
Gout	13,583	13.3

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 82.-- LIMITATION OF ACTIVITY DUE TO CHRONIC OR ACUTE CONDITIONS: 1983 AND 1986

Type of limitation	1983	1986
Persons with one or more chronic conditions	336,694	378,440
No limitation of activity	282,116	313,730
Limited, but not in major activity	24,264	26,073
Limited in amount or kind of activity	19,832	18,797
Unable to carry on major activity	10,482	10,893
Restricted days in past 12 months 1/	12,788,125	12,697,600
Per person 2/	13.0	12.4
Bed days in past 12 months	4,114,394	(NA)
Per person 2/	4.2	(NA)
Work days lost by persons 17 years of age and older in past 12 months	1,411,259	(NA)
Per employed person 17 years and older 2/	3.5	(NA)
School days lost by persons 6 to 16 years of age in past 12 months	570,945	(NA)
Per pupil 6 to 16 years of age 2/	3.3	(NA)

NA Not available.

1/ A restricted activity day is one in which a person had to cut down on his usual activity for all or most of the day.

2/ Base includes persons without chronic or acute conditions or restricted activities.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Survey Program, special tabulations.

Table 83.-- SPECIFIED COMMUNICABLE DISEASES: 1984 TO 1986

Disease	Cases			Deaths		
	1984	1985	1986	1984	1985	1986
All reportable diseases ..	8,512	11,377	9,765	35	38	32
Acquired Immunodeficiency Syndrome (AIDS) 1/	16	36	58	10	18	15
Chickenpox	834	1,494	1,386	-	-	-
Encephalitis	5	3	3	-	-	1
Gonorrhea	2,664	2,162	1,619	-	-	-
Hansen's Disease	105	31	37	5	-	-
Hepatitis, all types	130	260	101	6	7	2
Influenza	328	1,009	316	-	-	3
Measles (Rubeola)	142	31	37	-	-	-
Meningitis, all types	147	175	226	3	5	4
Mumps	22	19	24	-	-	-
Rubella	5	44	8	-	-	-
Salmonellosis	380	337	428	-	-	1
Scarlet fever, other strep. ...	2,973	5,036	4,892	-	-	-
Syphilis	150	123	56	-	-	-
Tuberculosis	218	189	180	11	8	6
All others	393	428	394	-	-	-

1/ The earliest officially recorded case of AIDS in Hawaii was a 52-year old Oriental woman, who was diagnosed in May 1978 and who died in August 1978. The second case was an infant, infected by a blood transfusion on the Mainland in January 1982, who died later that month. The third case was a male homosexual, who was diagnosed in January 1982 and who died in February 1984. The third AIDS death occurred in August 1982. In this table, AIDS deaths are reported by year of diagnosis rather than year of occurrence.

Source: Hawaii State Department of Health, Statistical Report, 1986, pp. 103 and 106, and memorandum from Roy G. Ohye, Acting Chief, Epidemiology Branch, dated April 3, 1986.

Table 84.-- ALCOHOL AND DRUG USE, BY AGE AND SEX: 1984

[Based on a sample of persons 18 and over on the four largest islands]

Substance, sex, and age	Sample size	Use (percent of group)				
		None 1/	Light	Moderate	Moderately heavy	Heavy
ALCOHOL 2/						
Total	2,503	47.3	24.4	12.9	7.3	8.1
Male	1,078	32.3	21.8	17.5	11.5	13.9
Female	1,412	56.4	26.4	9.4	4.1	3.7
18 to 24 years	426	42.7	25.6	15.3	7.5	8.9
25 to 34 years	426	37.5	29.2	15.6	7.5	8.9
35 to 44 years	479	44.5	28.6	13.8	6.1	7.1
45 to 54 years	326	51.5	24.2	9.2	6.8	8.3
55 to 64 years	367	55.3	19.1	10.9	7.1	7.6
65 to 74 years	226	61.5	13.7	11.5	7.5	5.8
75 years and over .	82	67.1	14.6	3.7	6.1	8.5
DRUGS 3/						
Total	2,503	57.0	6.5	30.8	2.6	3.1
Male	1,073	55.7	8.1	29.9	2.7	3.5
Female	1,411	57.8	5.2	31.7	2.5	2.8
18 to 24 years	424	41.7	12.5	38.0	3.5	4.3
25 to 34 years	594	44.4	10.9	35.0	5.1	4.6
35 to 44 years	479	57.0	6.3	32.6	1.5	2.7
45 to 54 years	326	66.3	2.2	28.2	0.9	2.5
55 to 64 years	367	73.0	1.6	21.0	1.9	2.5
65 to 74 years	225	76.4	0	21.3	1.3	0.9
75 years and over .	82	63.4	0	34.2	1.2	1.2

1/ For alcohol use, includes both non-drinkers and infrequent drinkers.

2/ Based on total ethanol consumption.

3/ Based on frequency of use, weighted by degree of danger to users, for marijuana/hashish, tranquilizers, barbiturates, inhalants, LSD, PCP, cocaine, amphetamines, heroin, and morphine/codeine/percodan/demoral.

Source: Jonathan S. Raymond, Sharon Murakami, and Frank Aheru, *Toward an Epidemiology of Mental Health and Alcohol and Drug Use in Hawaii* (September 1985), tables 7 and 11.

Table 85.-- NUMBER AND BED CAPACITY OF HOSPITALS AND CARE HOMES, BY TYPE OF FACILITY: 1980 TO 1987

Category and year	Hospitals				Care homes	
	Total 1/	Acute care	Long-term care	Specialty care	Residential 2/	Family 3/
Number of facilities:						
1980	49	25	33	8	15	281
1981	49	25	34	9	14	278
1982	49	25	34	9	15	280
1983	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1984	48	24	32	10	16	272
1985	47	23	32	10	(NA)	(NA)
1986	48	23	33	9	(NA)	(NA)
1987	51	23	36	9	17	633
Number of beds:						
1980	6,410	2,880	2,656	874	490	1,042
1981	6,488	2,925	2,670	893	500	1,055
1982	6,424	2,875	2,668	881	516	1,098
1983	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1984	6,512	2,900	2,648	967	549	1,082
1985	6,503	2,894	2,650	960	(NA)	(NA)
1986	6,595	2,870	2,769	956	(NA)	(NA)
1987	6,820	2,857	2,977	956	540	2,547

NA Not available.

1/ Institutions providing more than one kind of care are only counted once.

2/ Five or more beds. Since 1987, category changed to Type II care homes consisting of more than five beds.

3/ Four or fewer beds. Since 1987, Type I care homes consisting of five beds or less.

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 86.-- OCCUPANCY CHARACTERISTICS OF ACUTE AND LONG-TERM CARE CIVILIAN HOSPITALS: 1980 TO 1986

[Excludes Tripler Army Medical Center]

Type of facility and year	Beds 1/	Admissions	Average daily census	Average length of stay (days)	Average daily percent occupancy
Acute care:					
1980	2,359	117,404	2,047	6.4	70.9
1981	2,366	99,247	1,675	6.2	71.0
1982	(NA)	(NA)	(NA)	(NA)	(NA)
1983	2,387	102,331	1,654	5.9	69.3
1984	2,385	96,530	1,558	5.9	65.3
1985	2,361	84,473	1,566	6.8	66.3
1986 2/	2,378	91,704	1,586	6.3	66.7
Long-term care:					
1980	2,670	2,653	2,391	328.9	90.0
1981	2,668	2,478	2,487	366.4	93.2
1982	(NA)	(NA)	(NA)	(NA)	(NA)
1983	2,648	2,574	2,519	357.3	95.2
1984	2,650	2,606	2,552	357	96.3
1985	2,769	2,575	2,590	367	93.5
1986 2/	2,977	2,901	2,602	327	87.4

NA Not available.
1/ Civilian bed count of succeeding year.
2/ Excludes statistics for Lanai.
Source: Hawaii State Department of Health, Statistical Report (annual).

Table 87.-- NUMBER AND BED CAPACITY OF HOSPITALS, BY TYPE OF FACILITY, BY ISLANDS: 1987

[Except for Tripler Army Medical Center, data are for facilities recognized by the Hawaii State Health Planning and Development Agency]

Category and island	Hospitals				Care homes	
	Total 1/	Acute care 2/	Long-term care	Specialty care	Type II 3/	Type I 4/
NUMBER OF FACILITIES						
State total ..	51	23	36	9	17	633
Oahu	33	10	21	7	11	496
Hawaii	6	5	6	-	1	63
Kauai	5	3	5	-	4	44
Maui	4	3	2	1	-	18
Molokai	2	1	1	1	1	12
Lanai	1	1	1	-	-	-
NUMBER OF BEDS						
State total ..	6,820	2,887	2,977	956	540	2,547
Oahu	5,253	2,344	1,985	924	406	2,040
Hawaii	672	251	421	-	13	246
Kauai	328	117	211	-	107	143
Maui	499	153	338	8	-	69
Molokai	54	16	14	24	14	49
Lanai	14	6	8	-	-	-

1/ Institutions providing more than one kind of care are counted only once.

2/ Includes Tripler Army Medical Center which had a bed capacity of 509 (plus 52 nursery beds).

3/ More than five beds.

4/ Five beds or less.

Source: Hawaii State Department of Health, Statistical Report, 1986, pp. 81 and 82.

Table 88.-- OCCUPANCY CHARACTERISTICS OF ACUTE AND LONG-TERM CARE CIVILIAN HOSPITALS, BY ISLANDS: 1986

[Excludes Tripler Army Medical Center]

Type of facility and island	Admissions	Average daily census	Average length of stay (days)	Average daily percent occupancy
ACUTE CARE				
State total	91,704	1,586	6.3	66.7
Oahu	67,499	1,295	6.8	67.3
Hawaii	11,006	135	4.5	53.8
Kauai	5,204	52	3.6	44.4
Maui	7,626	100	3.5	65.4
Molokai	369	4	3.5	25.0
Lanai	(NA)	(NA)	(NA)	(NA)
LONG-TERM CARE				
State total	2,901	2,602	327	87.4
Oahu	1,526	1,753	419	90.5
Hawaii	468	379	296	93.8
Kauai	233	127	101	83.0
Maui	289	330	418	97.6
Molokai	48	13	95	89.3
Lanai	(NA)	(NA)	(NA)	(NA)

NA Not available.

Source: Data by islands from Hawaii State Department of Health, Statistical Report 1986, pp. 82-85; state totals estimated by Hawaii State Department of Business and Economic Development.

Table 89.-- COMMUNITY HOSPITAL AVERAGE COSTS AND ROOM CHARGES: 1979 TO 1986

Year	Average length of stay (days)	Average cost to hospital		Hospital semiprivate room charges 1/ (dollars)
		Per in-patient day (dollars)	Per admission (dollars)	
1979	7.5	263.70	1,978	114.34
1980	7.5	245.80	1,844	126.98
1981	7.9	276.80	2,187	141.09
1982	8.3	307.30	2,551	176.24
1983	8.2	357.87	2,964	215.84
1984	8.3	383.05	3,186	224.31
1985	(NA)	(NA)	(NA)	230.82
1986	(NA)	(NA)	(NA)	252.89

NA Not available.

1/ January data, except 1983, which refers to July.

Source: Health Insurance Association of America, Source Book of Health Insurance Data (biennial) and Update (biennial).

Table 90.-- PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES: 1981 TO 1986

Year	Patients active, end of period			Admissions		Terminations	Patients served (undup.)
	Total	In-patients	Out-patients	Total	Unduplicated		
1981	6,642	408	6,213	4,947	4,474	5,062	10,689
1982	6,287	336	5,951	4,885	4,163	5,155	10,312
1983	6,022	303	5,719	4,761	4,112	5,030	9,970
1984 1/ ...	5,692	337	5,355	4,307	3,845	4,887	9,724
1985	6,328	251	6,077	3,933	3,268	4,221	8,891
1986	5,852	252	5,600	3,826	3,292	3,725	8,342

1/ Year ended June 30.

Source: Hawaii State Department of Health, Statistical Report (annual) and records.

Table 91.-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY: 1983 TO 1987

Year	Number of beds, June 30	Admissions 1/		Patients in hospital 2/	
		Total	First	Average 1/	June 30
1983	220	1,070	445	239	243
1984	220	744	276	221	240
1985	220	647	514	220	224
1986 3/ .	240	738	611	263	272
1987 3/ .	240	776	614	254	223

1/ Year ended June 30.
2/ Includes patients on leave and absent without leave.
3/ Includes children's unit at Leahi Hospital assigned to the Hawaii State Hospital effective July 1, 1985.
Source: Hawaii State Hospital, records.

Table 92.-- WAIMANO TRAINING SCHOOL AND HOSPITAL: 1983 TO 1987

[Waimano Training School and Hospital is the State institution for the mentally retarded]

Year	Beds, June 30	Admissions 1/	Patients in residence		Patients on leave, June 30
			Average 2/	June 30	
1983	426	10	365	375	614
1984	410	2	356	364	603
1985	410	2	354	360	586
1986	410	-	331	333	593
1987	285	-	266	260	575

1/ Year ended June 30. Excluding returns from community placement.
2/ Year ended June 30.
Source: Hawaii State Department of Health, Statistical Report (annual); Waimano Training School and Hospital, records; and Community Services for the Developmentally Disabled Branch, records.

Table 93.-- HANSEN'S DISEASE PATIENTS REGISTERED: 1982 TO 1986

Subject	1982	1983	1984	1985	1986
Patients on register, Dec. 31 ..	550	578	661	651	653
Medically released	550	578	661	651	653
At home	432	462	555	545	549
Kalaupapa	112	110	101	101	99
Hale Mohalu or Leahi	6	6	5	5	5
Net annual change	44	28	83	-10	2
New cases added	49	41	43	31	37
Cases returned to register ...	11	5	58	4	6
Deaths	4	6	15	10	4
Left the State	12	12	5	39	6
Discharged	-	-	-	-	26
Registry correction (net)	-	-	+2	+4	-5

Source: Hawaii State Department of Health, Statistical Report, 1986, pp. 108-109.

Table 94.-- SELECTED HEALTH SERVICES (SIC 801-803): 1982

[Includes only establishments with payroll]

Service	Establishments	Receipts ($1,000)	Annual payroll 1/ ($1,000)	Paid employees, 1/ mid-March
Offices of physicians	889	229,507	97,872	3,830
Offices of osteopathic physicians	13	1,533	626	31
Offices of dentists	488	99,175	36,856	2,420
With in-house laboratories	75	16,808	(NA)	(NA)
Medical and dental laboratories ..	58	18,838	8,055	497
Medical laboratories	21	12,685	5,227	313
Dental laboratories	37	6,153	2,828	184

NA Not available.

1/ For data by occupation, see source.

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Miscellaneous Subjects, SC82-I-5 (December 1985), tables 25-29.

Table 95.-- DENTAL CARE, BY AGE GROUP: 1979

[Based on a sample of 4,457 persons surveyed in April-June 1979]

Subject	All ages 1/	Under 20 years	20 to 39 years	40 to 59 years	60 years and over
Population surveyed	867,755	293,667	300,852	175,113	92,666
Months since last visit:					
Less than 6	312,781	111,515	113,509	63,300	22,983
6 to 12	138,438	52,918	52,923	20,147	12,127
Less than 12, unspecified ...	114,922	42,132	32,545	28,031	10,119
Over 12	219,379	34,942	84,555	56,284	42,578
Never	55,394	47,244	3,653	2,290	2,118
Unknown	26,842	4,916	13,667	5,061	2,742
Services received in past 12 months: 2/					
Checkup	23,601	12,394	6,124	4,272	811
X-ray	344,731	119,090	133,835	65,831	22,428
Cleaning teeth	434,384	160,282	158,072	83,836	28,742
Fillings	291,238	105,669	114,037	49,970	21,217
Fluoride treatment	155,870	97,968	47,498	8,220	2,183
Extractions	66,266	24,683	25,831	10,512	5,161
Root canal treatment	27,081	3,033	12,894	6,633	4,175
Dentures and/or bridges	35,048	376	7,629	14,641	12,323
Crowns and capping	53,243	8,701	22,939	14,214	7,376
Straightening teeth	16,192	11,913	3,130	1,148	-
Treating gum and/or bone	13,016	867	3,918	5,243	2,987
Other	8,128	4,224	1,796	699	1,409
Unknown	17,642	7,135	4,917	4,189	1,056
Dental problems: 2/					
Cavities	85,192	19,904	44,345	14,491	6,451
Toothache	11,132	1,683	4,666	2,808	1,974
Wisdom tooth	22,066	6,109	13,928	1,513	516
Dentures	32,651	1,547	2,644	12,399	16,061
Crooked teeth or bad bite ...	33,595	20,436	9,049	2,726	1,384
Disease of gum and/or bone ..	8,861	452	2,555	4,789	1,040
Other	18,324	5,903	6,918	3,081	2,422
None	636,968	220,371	213,235	135,848	62,908
Unknown	54,917	24,001	18,857	6,063	5,171

1/ Includes 5,456 persons not reporting age.

2/ Some respondents reported two or more categories.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, printout dated January 29, 1981.

Table 96.-- POPULATION USING FLUORIDATED WATER: 1964 TO 1980

Subject	1964	1972	1980
Persons using fluoridated water 1/	87,000	104,500	61,000
Percent of total population	12.2	12.8	6.3
Rank (50 States, D.C., and P.R.) ...	41	48	50

1/ Covers both natural and controlled fluoridation.
Source: Statistical Abstract of the United States for 1965 (p. 174) and 1975 (p. 180); Hawaii Health Messenger, Spring 1987, p. 3.

Table 97.-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED IN HAWAII, BY PLACE OF ADDRESS: NOVEMBER 19, 1986

Place of address	Physicians and surgeons 1/	Dentists	Registered nurses	Pharmacists
Total licensed	3,597	1,103	9,368	764
Hawaii addresses ...	2,150	847	7,088	469
Hawaii	170	74	572	37
Maui	147	50	531	35
Lanai	3	-	8	1
Molokai	8	4	33	2
Oahu	1,740	694	5,671	375
Kauai	82	25	273	19
Niihau	-	-	-	-
Out of State	1,447	256	2,280	295

1/ Permanent licenses only. Does not include interns, residents, or physicians who provided State government services only.
Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Licensing Branch, data provided February 13, 1987.

Table 98.-- MARRIAGES AND DIVORCES: 1970 TO 1986

[Place of occurrence basis]

Calendar year	Marriages		Divorces and annulments 2/	Rates per 1,000 resident population 3/		Percent of marriages	
	Total	Resident 1/		Resident marriages	Divorces, annulments 2/	Nonresident 4/	Interracial
1970 ...	10,599	7,889	2,589	10.2	3.4	25.6	33.7
1971 ...	9,734	8,104	3,691	10.1	4.6	16.7	38.7
1972 ...	9,750	8,482	3,891	10.2	4.7	13.0	38.6
1973 ...	9,776	8,656	4,170	10.2	4.9	11.5	40.6
1974 ...	9,649	8,500	4,111	9.8	4.7	11.9	40.1
1975 ...	9,673	8,440	4,265	9.5	4.8	12.7	39.6
1976 ...	9,769	8,318	4,712	9.2	5.2	14.9	38.8
1977 ...	10,266	8,427	4,601	9.2	5.0	17.9	37.5
1978 ...	10,736	8,650	4,837	9.3	5.2	19.4	37.9
1979 ...	11,678	9,424	5,055	9.9	5.3	19.3	38.2
1980 ...	11,856	9,442	4,438	9.7	4.6	20.4	37.6
1981 ...	12,218	9,445	4,253	9.6	4.3	22.7	36.1
1982 ...	13,483	10,053	4,233	10.1	4.2	25.4	35.7
1983 ...	14,062	10,216	4,583	10.0	4.5	27.3	35.5
1984 ...	14,982	10,020	4,769	9.7	4.6	33.3	33.4
1985 ...	15,421	9,893	4,887	9.4	4.6	35.8	33.6
1986 ...	16,219	9,571	4,674	9.0	4.4	30.4	30.7

1/ One or both partners residents of Hawaii.

2/ Final decrees only. An interlocutory decree of six months was abolished July 1, 1971.

3/ Based on estimates in DPED, Statistical Reports 172 and 195.

4/ Both partners nonresidents of Hawaii.

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 99.-- CHARACTERISTICS OF MARRIAGES AND DIVORCES: 1983 TO 1986

[Place of occurrence basis]

Subject	1983	1984	1985	1986
MARRIAGES				
Number	14,062	14,982	15,421	16,219
Percent on Oahu	69.8	66.8	64.5	62.0
Percent Hawaii residents:				
Both bride and groom	67.5	61.7	59.4	54.6
One partner only	5.2	5.2	4.7	4.4
Neither bride nor groom	27.3	33.1	35.8	41.0
Median age (years):				
Groom	29.0	29.7	29.9	30.6
Bride	26.8	27.5	27.8	28.1
Percent previously married:				
Groom	36.6	38.3	39.3	40.4
Bride	36.8	38.8	39.1	39.6
DIVORCES AND ANNULMENTS				
Number	4,583	4,769	4,887	4,674
Divorces	4,573	4,758	4,875	4,652
Annulments	10	11	12	19
Not reported	-	-	-	3
Percent occurring on Oahu	76.1	79.2	77.2	76.2
Residence:				
Both residents of Hawaii	76.1	74.2	75.3	74.4
Only husband nonresident	12.2	13.0	12.3	12.9
Only wife nonresident	11.8	12.8	12.4	12.5
Both nonresidents	-	-	-	0.1
Median age (years):				
Husband	33.4	33.9	34.3	34.3
Wife	30.8	31.3	32.0	32.1
Percent interracial 1/	39.9	41.1	39.0	38.2
Percent with children under 18 years	54.4	54.0	55.6	53.2
Median years married	5.4	6.1	6.3	6.4

1/ For these calculations, marriages where both bride and groom are in the "Part Hawaiian" or "Other races" categories are classified as non-interracial.

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 100.-- RESIDENT MARRIAGES, TOTAL AND INTERRACIAL, BY OCCUPATION OF BRIDE AND GROOM: 1986

[For earlier years, see Data Book 1976, table 41]

Occupation	By occupation of groom			By occupation of bride		
	All marriages	Mixed marriages		All marriages	Mixed marriages	
		Number	Percent		Number	Percent
Total	9,570	4,447	46.5	9,570	4,447	46.5
No occupation	702	342	48.7	2,802	1,402	50.0
Prof., technical ...	1,221	551	45.1	1,179	502	42.6
Farm, mgr., official	1,080	524	48.5	603	311	51.6
Clerical	434	225	51.8	2,319	1,129	48.7
Sales	431	185	42.9	621	315	50.7
Craft, foremen	1,389	713	51.3	94	41	43.6
Operatives	585	304	52.0	115	52	45.2
Priv. household	1,135	579	51.0	1,122	555	49.5
Farm laborers	16	8	50.0	7	2	28.6
Labor, exc. farm ...	372	156	41.9	32	15	46.9
Armed forces	2,194	855	39.0	669	119	17.8
Unknown	11	5	45.5	7	4	57.1

Source: Hawaii State Department of Health, records.

Table 101.-- MARRIAGES OCCURRING IN HAWAII, RESIDENT AND NONRESIDENT, BY RACE MIXTURE AND TYPE OF CEREMONY: 1986

Race mixture and type of ceremony	Total	At least one partner Hawaii resident	Both partners nonresidents
All marriages	16,219	9,570	6,649
Race of bride and groom:			
Both partners same	11,126	5,123	6,003
Different	5,093	4,447	646
Percent different	31.4	46.5	9.7
Type of ceremony:			
Civil	4,990	3,875	1,115
Religious	11,228	5,694	5,534
Unknown	1	1	-
Percent civil	30.8	40.5	16.8

Source: Hawaii State Department of Health, Research and Statistics Office, special tabulations.

Table 102.-- PERSONAL HEALTH CARE EXPENDITURES: 1966 AND 1982

Type of expenditure	Total (million dollars)		Per capita (dollars)	
	1966	1982	1966	1982
All expenditures	147.9	1,224.4	208	1,228
Hospital care	56.4	477.6	79	479
Physicians' services	33.3	374.5	47	376
Dentists' services	14.2	133.0	20	133
Other professional services ..	3.1	20.8	4	21
Drugs and medical sundries ...	19.2	92.9	27	93
Eyeglasses and appliances	4.1	22.6	6	23
Nursing home care	4.2	62.8	6	63
Other health services	13.6	40.1	19	40

Source: U.S. Department of Health and Human Services, Health Care Financing Administration, Health Care Financing Review, Summer 1985, pp. 19, 21, 37, and 45.

Table 103.-- HEIGHT DISTRIBUTION, BY SEX, AND AVERAGE WEIGHT, BY HEIGHT AND SEX, FOR PERSONS 18 YEARS OLD AND OVER: 1975-1980

[Based on a sample of approximately 48,000 Hawaii residents 18 years old and over. Height and weight values are those reported by respondents; inclusion or exclusion of clothing or shoes not specified. Fractional values of 1/2 and over have been rounded upward]

Height (inches)	Cumulative percent		Average weight (pounds)	
	Male	Female	Male	Female
Total	100.0	100.0	159.5	127.9
Under 54	0.1	0.7	(B)	111.0
54	0.1	0.8	(B)	106.0
55	0.1	1.0	(B)	112.9
56	0.2	1.7	(B)	107.3
57	0.3	2.7	(B)	107.8
58	0.4	5.2	122.7	107.9
59	0.7	11.4	124.2	113.6
60	2.1	24.4	126.7	116.3
61	3.5	34.9	131.7	121.3
62	7.3	51.2	133.6	124.6
63	12.1	63.3	136.1	128.7
64	19.8	74.7	140.8	133.9
65	27.8	82.8	145.1	138.5
66	39.3	89.9	150.0	140.3
67	51.2	94.6	155.8	144.4
68	61.8	97.4	161.6	148.5
69	70.7	98.6	168.4	156.5
70	78.4	99.3	170.7	153.2
71	85.7	99.7	177.7	156.8
72	92.7	99.9	182.4	167.4
73	95.7	99.9	188.7	(B)
74	98.1	100.0	193.9	(B)
75	99.0	100.0	198.9	(B)
76	99.6	100.0	201.8	(B)
77	99.8	100.0	205.9	(B)
78	99.9	100.0	210.8	(B)
79 and over	100.0	100.0	192.2	(B)

B Base figure too small to meet statistical standards for reliability of derived figure.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 104.-- WEIGHT DISTRIBUTION, BY SEX, AND AVERAGE HEIGHT, BY WEIGHT AND SEX, FOR PERSONS 18 YEARS OLD AND OVER: 1975-1980

[Based on a sample of approximately 48,000 Hawaii residents 18 years old and over. Height and weight values are those reported by respondents; inclusion or exclusion of clothing or shoes not specified. Fractional values of 1/2 and over have been rounded upward]

Weight (pounds)	Cumulative percent		Average height (inches)	
	Male	Female	Male	Female
Total	100.0	100.0	67.5	62.6
Under 75	0.0	0.1	(B)	57.8
75 to 99	0.4	7.8	61.4	59.7
100 to 124	7.7	51.2	63.5	61.9
125 to 149	38.3	82.5	65.7	63.4
150 to 174	71.7	93.3	68.0	64.2
175 to 199	90.0	97.7	69.8	64.7
200 to 224	96.8	99.1	70.7	65.0
225 to 249	98.7	99.6	70.9	65.0
250 to 274	99.5	99.9	70.6	65.5
275 to 299	99.8	100.0	71.0	63.9
300 to 324	99.9	100.0	72.1	(B)
325 to 349	99.9	100.0	(B)	(B)
350 and over	100.0	100.0	(B)	(B)

B Base figure too small to meet statistical standards for reliability of derived figure.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 105.-- DAILY FOOD INTAKE OF INDIVIDUALS: WINTER 1978

Food	Average daily intake (grams)	Percent using in a day
Meats, poultry, fish	244	94.7
Milk, milk products (calcium equivalent)	273	69.8
Eggs	28	32.2
Legumes, nuts, seeds	38	25.8
Grain products	281	96.9
Bread, rolls, biscuits	49	70.4
Rice	116	58.7
Fats, oils	13	62.9
Vegetables	160	86.4
Nonalcoholic beverages	491	77.1
Alcoholic beverages	79	12.2
Fruits	169	58.5
Sugar, sweets	18	53.8

Source: U.S. Department of Agriculture, Science and Education Administration, Food and Nutrient Intakes of Individuals in 1 Day in Hawaii, Winter 1978 (Nationwide Food Consumption Survey 1977-78, Preliminary Report No. 5, May 1981), pp. 33-42.

Table 106.-- NUTRITIVE VALUE OF FOOD: WINTER 1978

Nutrient	Average intake per individual in a day		Percent of recommended dietary allowances in a day	Percent of households meeting recommended allowances
	Unit	Amount		
Food energy	Kcal	1,751	81	77
Protein	G	73.8	163	98
Fat	G	75.8	...	...
Carbohydrate	G	188.2	...	...
Calcium	Mg	625	73	50
Iron	Mg	12.6	103	88
Magnesium	Mg	236	79	70
Phosphorus	Mg	1,068	127	96
Vitamin A value	IU	5,429	122	83
Thiamin	Mg	1.23	110	88
Riboflavin	Mg	1.50	116	87
Preformed niacin ...	Mg	18.3	124	...
Vitamin B_6	Mg	1.44	75	68
Vitamin B_{12}	Mcg	5.11	139	84
Vitamin C	Mg	96	166	96

Source: U.S. Department of Agriculture, Science and Education Adminiatration, Food Consumption and Dietary Levels of Households in Hawaii, Winter 1978 (Nationwide Food Consumption Survey 1977-78, Preliminary Report No. 4, April 1981), p. 19, and Food and Nutrient Intakes of Individuals in 1 Day in Hawaii, Winter 1978 (Nationwide Food Consumption Survey 1977-78, Preliminary Report No. 5, May 1981), pp. 58 and 60.

Section 3

EDUCATION

This section presents statistics on enrollment in public and private schools, colleges and universities; students graduated and degrees awarded; the highest grade of school completed; achievement test results; school facilities, personnel, and expenditures; and libraries.

Enrollment in elementary, intermediate and high schools in 1986-1987 totaled 201,000, slightly more than in the preceding year but well below the all-time high of 216,000 reached in 1971-1972. There were 232 public schools with 8,244 classroom teachers and 165,000 students (81.8 percent of the total). There were also 145 private schools with 2,544 teachers and over 36,000 pupils. Students graduating from public and private high schools in 1985-1986 numbered 12,468. Some 52,000 students attended colleges and universities in the State in 1986-1987, including 19,000 on the Manoa Campus of the University of Hawaii, 500 at West Oahu College, 3,300 at UH-Hilo, 20,000 at six community colleges, and 9,000 in four private colleges and universities. Ninety-two percent of the children 5 and 6 years old were in school in 1980 (compared with 87 percent in 1970), and 47 percent in the 18- and 19-year-old group were enrolled (compared with 53 percent a decade earlier). The expenditure per pupil in public schools rose from $1,718 in 1976-1977 to $3,748 in 1986-1987. In scholastic aptitude tests, Hawaii students scored somewhat above national norms in the math component but considerably below in the verbal component. Among adults, an estimated 15 percent were illiterate in English as of 1980. More than one-fifth of all residents 25 years of age or more have completed four or more years of college. The Hawaii State Library System, with 49 locations in all four counties, had 2.1 million books, and 2.8 million microforms, film reels, phonorecords, and other collections in 1986, with an annual circulation of 6.5 million. The University of Hawaii libraries in the same year counted 2.5 million volumes.

The principal sources of data on education are the U.S. Bureau of the Census, Hawaii State Department of Education, University of Hawaii, and private colleges and universities. Historical Statistics of Hawaii, Section 9, contains Island data back to 1820. Section 4 of the Statistical Abstract of the United States: 1987 presents comparable information for the nation as a whole.

Table 107.-- SCHOOLS, TEACHERS, ENROLLMENT, AND HIGH SCHOOL GRADUATES, FOR PUBLIC AND PRIVATE SCHOOL SYSTEMS: 1976-1977 TO 1986-1987

School year	Schools 1/			Teachers 1/		
	Total	Public	Private	Total	Public 2/	Private 3/
1976-77 ...	353	227	126	10,115	8,008	2,107
1977-78 ...	356	228	128	9,972	7,891	2,081
1978-79 ...	365	229	136	9,815	7,930	1,885
1979-80 ...	369	229	140	10,125	8,066	2,059
1980-81 ...	371	230	141	10,324	8,113	2,211
1981-82 ...	376	230	146	10,447	8,139	2,308
1982-83 ...	373	233	140	10,302	8,083	2,219
1983-84 ...	374	233	141	10,344	7,997	2,347
1984-85 ...	372	231	141	10,453	8,060	2,393
1985-86 ...	373	232	141	10,677	8,221	2,456
1986-87 ...	377	232	145	10,788	8,244	2,544

School year	Enrollment or membership 1/			High school graduates		
	Total	Public 4/	Private 5/	Total	Public	Private
1976-77 ...	210,736	174,838	35,898	13,823	11,637	2,186
1977-78 ...	208,830	172,649	36,181	13,867	11,464	2,403
1978-79 ...	206,812	170,515	36,297	14,097	11,637	2,460
1979-80 ...	205,580	168,393	37,187	14,013	11,493	2,520
1980-81 ...	202,972	165,094	37,878	14,647	12,088	2,559
1981-82 ...	200,844	162,805	38,039	13,948	11,563	2,385
1982-83 ...	200,129	162,024	38,105	13,248	10,757	2,491
1983-84 ...	200,240	162,241	37,999	12,992	10,454	2,538
1984-85 ...	200,869	163,860	37,009	12,516	10,092	2,424
1985-86 ...	200,952	164,169	36,783	12,468	9,958	2,510
1986-87 ...	201,188	164,640	36,548	(NA)	(NA)	(NA)

NA Not available.

1/ September data for all years.

2/ Special schools excluded through 1978-1979 but included beginning 1979-1980.

3/ Includes special schools for all years.

4/ Includes special schools; excludes pre-kindergarten prior to 1980-1981.

5/ Includes special schools and pre-kindergarten for all years.

Source: Hawaii State Department of Education, records.

Table 108.-- SCHOOLS, TEACHERS, AND ENROLLMENT, SEPTEMBER 12, 1986, AND HIGH SCHOOL GRADUATES, 1985-1986, FOR PUBLIC AND PRIVATE SCHOOL SYSTEMS, BY ISLANDS

[Data include special schools other than University Laboratory Schools]

Island	Number of schools, September 11, 1986			Number of teachers, September 11, 1986		
	Total	Public	Private	Total	Public	Private
State total	377	232	145	10,788	8,244	2,544
Hawaii	46	31	15	1,272	1,087	185
Maui	33	20	13	789	654	135
Lanai	1	1	-	28	28	-
Molokai	7	5	2	92	87	5
Oahu	270	162	108	8,103	5,946	2,157
Kauai	19	12	7	501	439	62
Niihau	1	1	-	3	3	-

Island	Enrollment, September 11, 1986			High school graduates, 1985-1986 school year		
	Total	Public	Private	Total	Public	Private
State total	201,188	164,640	36,548	12,468	9,958	2,510
Hawaii	24,016	21,816	2,200	1,398	1,269	129
Maui	15,372	13,422	1,950	938	803	135
Lanai	452	452	-	29	29	-
Molokai	1,635	1,608	27	96	96	-
Oahu	150,263	118,657	31,606	9,483	7,238	2,245
Kauai	9,429	8,664	765	524	523	1
Niihau	21	21	-	-	-	-

Source: Hawaii State Department of Education, January 8, 1987.

Table 109.-- PUBLIC AND PRIVATE SCHOOL ENROLLMENT, BY GRADES: 1981 TO 1986

[September data. Excludes the University Laboratory Schools]

Grade	1981	1982	1983	1984
All grades	200,844	200,129	200,240	200,869
Nursery	3,192	3,543	3,354	2,767
Kindergarten	14,874	15,400	15,390	15,980
1	14,482	15,011	15,567	15,731
2	14,067	14,148	14,726	15,305
3	13,919	13,896	13,917	14,553
4	13,894	13,695	13,790	13,783
5	14,550	13,738	13,493	13,598
6	14,864	14,365	13,463	13,437
7	14,648	15,020	14,525	13,693
8	13,647	14,462	14,950	14,551
9	14,725	14,758	15,265	15,945
10	15,378	14,746	14,487	15,049
11	14,609	14,168	13,844	13,731
12	14,104	12,942	12,899	12,465
Specials 1/	9,891	10,237	10,570	10,281

Grade	1985	1986		
		Total	Public	Private
All grades	200,952	201,188	164,640	36,548
Nursery	2,774	2,796	304	2,492
Kindergarten	16,362	16,557	13,642	2,915
1	16,020	16,538	13,779	2,759
2	15,135	15,672	13,092	2,580
3	14,826	14,778	12,355	2,423
4	14,203	14,434	12,146	2,288
5	13,372	13,980	11,744	2,236
6	13,328	13,156	10,994	2,162
7	13,488	13,313	10,665	2,648
8	13,530	13,287	10,611	2,676
9	15,496	14,647	11,883	2,764
10	15,635	14,967	12,235	2,732
11	14,305	14,637	11,825	2,812
12	12,420	12,936	10,251	2,685
Specials 1/	10,058	9,490	9,114	376

1/ Public school data include ungraded students in special schools.

Source: Hawaii State Department of Education, records.

Table 110.-- ENROLLMENT (PUBLIC AND PRIVATE SCHOOLS COMBINED), BY GRADES, BY COUNTIES: SEPTEMBER 11, 1986

[Excludes the University Laboratory Schools]

Grade	State total	Hawaii	Maui	Honolulu	Kauai
All grades	201,188	24,016	17,459	150,263	9,450
Nursery	2,796	233	178	2,326	59
Kindergarten	16,557	1,919	1,488	12,325	825
1	16,538	2,069	1,442	12,233	794
2	15,672	1,977	1,419	11,460	816
3	14,778	1,931	1,314	10,781	752
4	14,434	1,869	1,307	10,581	677
5	13,980	1,780	1,271	10,219	710
6	13,156	1,585	1,203	9,718	650
7	13,313	1,587	1,177	9,955	594
8	13,287	1,508	1,134	10,025	620
9	14,647	1,702	1,250	11,050	645
10	14,967	1,593	1,273	11,455	646
11	14,637	1,653	1,252	11,075	657
12	12,936	1,467	1,072	9,805	592
Specials 1/	9,490	1,143	679	7,255	413

1/ Includes ungraded students in special schools.
Source: Hawaii State Department of Education, January 8, 1987.

Table 111.-- FEDERALLY-CONNECTED PUPILS IN PUBLIC SCHOOLS: FALL, 1983 TO 1986

Category	1983	1984	1985	1986
All federally-connected pupils	38,305	38,927	38,046	37,843
Percent of total enrollment	23.6	23.8	23.2	23.0
Military dependents	19,965	20,304	20,037	19,907
Others 1/	18,340	18,623	18,009	17,936

1/ Includes dependents of civilian employees of armed forces.
Source: Hawaii State Department of Education, records.

Table 112.-- PRIVATE SCHOOLS, TEACHERS, AND ENROLLMENT, SEPTEMBER 11, 1986, AND PRIVATE HIGH SCHOOL GRADUATES, 1985-1986, BY CHURCH AFFILIATION

Church affiliation	Schools	Teachers	Enrollment	High school graduates
Total	145	2,544	36,548	2,510
Church-affiliated	95	1,512	24,003	1,397
Roman Catholic	39	756	12,960	827
Other church-affiliated	56	756	11,043	570
Non-church-affiliated ...	50	1,032	12,545	1,113

Source: Hawaii State Department of Education, January 8, 1987.

Table 113.-- FRACTION OF HAWAIIAN BLOOD AMONG STUDENTS AT THE KAMEHAMEHA SCHOOLS: 1968-69 AND 1985-86

Fraction	1968-69	1985-86	Fraction	1968-69	1985-86
Number ...	2,554	2,764	Percent--con.:		
			1/2	16.17	12.36
Percent	100.00	100.00	3/8	19.66	20.33
Unmixed	0.20	0.04	1/4	26.86	30.21
7/8	0.82	1.25	1/8	21.61	19.65
3/4	3.25	2.66	1/16	3.60	7.61
5/8	7.83	5.89	None	0	0

Source: The Kamehameha Schools, records.

Table 114.-- EXPENDITURES, COST PER PUPIL, AVERAGE SALARIES, AND DAYS OF SCHOOL, FOR PUBLIC ELEMENTARY AND SECONDARY EDUCATION: 1969-1970 TO 1986-1987

Fiscal year	Expenditures (dollars)		Cost per pupil 1/ (dollars)	Average annual salary of teachers (dollars)	Number of days of school
	Current operations	Capital outlay			
1969-1970 ..	146,753,192	37,564,333	818.19	9,591	179
1970-1971 ..	179,070,294	34,539,101	988.54	10,424	177 1/2
1971-1972 ..	183,830,422	35,269,593	1,007.10	10,459	178 1/2
1972-1973 ..	184,118,840	31,618,093	1,014.02	10,883	174
1973-1974 ..	221,923,654	33,618,196	1,257.40	11,968	176
1974-1975 ..	232,185,601	24,832,512	1,305.00	13,949	178
1975-1976 ..	268,155,310	31,983,000	1,503.39	15,111	178
1976-1977 ..	298,770,753	38,105,500	1,718.34	16,689	175
1977-1978 ..	322,185,202	23,196,000	1,883.79	17,579	175
1978-1979 ..	333,768,126	20,809,000	1,981.35	18,360	173
1979-1980 ..	360,316,441	30,489,000	2,163.62	19,858	2/ 163
1980-1981 ..	402,344,699	30,860,000	2,457.32	21,085	176
1981-1982 ..	432,228,402	17,237,000	2,700.72	22,473	177
1982-1983 ..	497,763,951	23,304,890	3,098.23	21,504	3/ 174
1983-1984 ..	509,710,506	11,941,000	3,255.97	25,380	176
1984-1985 ..	526,741,742	13,652,707	3,351.18	25,648	174
1985-1986 ..	585,533,781	27,812,430	3,795.31	26,595	176
1986-1987 ..	589,592,735	23,445,100	3,748.38	27,546	176

1/ Based on average daily membership.

2/ Scheduled school days numbered 177; 14 days were missed because of "blue collar strike."

3/ One day missed due to Hurricane Iwa.

Source: Hawaii State Department of Education, records.

Table 115.-- ENROLLMENT AT THE UNIVERSITY OF HAWAII, BY CAMPUS: FALL 1977 TO 1987

[Fall enrollment in regular credit programs, including concurrent registrants and early admits]

Year	Total, all campuses	University of Hawaii at Manoa				Univ. of Hawaii at Hilo 2/	West Oahu College
		Total	Under-graduates	Grad-uates	Other 1/		
1977 ..	43,888	21,106	15,208	4,280	1,618	3,280	201
1978 ..	43,803	21,225	15,148	4,350	1,727	3,053	234
1979 ..	43,375	20,833	14,902	4,258	1,673	3,099	258
1980 ..	43,542	20,319	14,402	4,235	1,682	3,504	247
1981 ..	45,425	20,629	14,487	4,324	1,818	3,478	369
1982 ..	47,527	21,065	14,879	4,328	1,858	3,752	410
1983 ..	46,468	21,112	15,091	4,339	1,682	3,613	433
1984 ..	43,970	20,023	14,234	4,255	1,534	3,237	435
1985 ..	43,369	19,666	13,565	4,283	1,818	3,200	443
1986 ..	42,837	18,977	12,762	4,438	1,777	3,300	480
1987 ..	43,054	18,448	12,254	4,400	1,794	3,553	482

Year	Community Colleges 3/						
	Total	Hono-lulu	Kapio-lani	Lee-ward	Wind-ward	Kauai	Maui
1977 ..	19,301	4,402	4,494	6,159	1,353	1,245	1,648
1978 ..	19,291	4,386	4,738	5,893	1,415	1,137	1,722
1979 ..	19,185	4,576	4,641	5,540	1,505	1,104	1,819
1980 ..	19,472	4,509	4,978	5,575	1,442	1,082	1,886
1981 ..	20,949	5,211	5,089	6,032	1,489	1,201	1,927
1982 ..	22,300	5,331	5,560	6,261	1,568	1,272	2,308
1983 ..	21,310	5,131	5,284	6,060	1,462	1,190	2,183
1984 ..	20,275	4,554	5,281	5,785	1,366	1,176	2,113
1985 ..	20,060	4,539	5,058	5,667	1,543	1,177	2,076
1986 ..	20,080	4,275	5,226	5,703	1,644	1,248	1,984
1987 ..	20,571	4,527	5,505	5,748	1,650	1,183	1,958

Footnotes and source follow next table.

Table 116.-- DEGREES, DIPLOMAS, AND CERTIFICATES AWARDED BY THE UNIVERSITY OF HAWAII: 1977 TO 1987

Year ended June 30	University of Hawaii at Manoa					
	Associate	Bachelor	Master	Doctor	First professional 4/	Other 5/
1977	58	3,192	1,019	135	113	164
1978	61	3,213	1,007	129	125	157
1979	69	2,899	1,063	122	122	134
1980	46	2,859	969	102	136	124
1981	57	2,701	968	115	152	106
1982	52	2,588	993	111	137	122
1983	52	2,639	938	120	132	120
1984	60	2,698	945	101	131	166
1985	90	2,642	914	138	137	189
1986	66	2,679	837	132	131	244
1987	65	2,602	794	130	137	249

Year ended June 30	University of Hawaii at Hilo 2/			West Oahu College: Bachelor	Community Colleges 3/	
	Certificates	Associate degrees	Bachelor degrees		Certificates 6/	Associate degrees
1977	93	255	196	6	420	1,598
1978	69	280	206	12	456	1,864
1979	92	255	166	22	509	1,964
1980	86	256	160	48	481	1,807
1981	57	261	171	47	483	1,763
1982	74	263	160	46	519	1,882
1983	68	242	193	91	509	2,008
1984	80	239	188	136	473	2,026
1985	67	229	180	77	454	1,875
1986	56	196	183	98	478	1,933
1987 7/ .	56	202	201	139	378	1,840

1/ Includes unclassified, special and no data on student level.

2/ Hilo College, College of Agriculture, and Hawaii Community College.

3/ Excludes Hawaii Community College, which is part of the University of Hawaii at Hilo.

4/ Includes Doctor of Jurisprudence (J.D.) and Doctor of Medicine (M.D.).

5/ Certificates in Dental Hygiene and professional diplomas.

6/ Certificates of Achievement.

7/ Excludes 64 no data for community colleges.

Source: University of Hawaii, Office of Institutional Research and Analysis, records.

Table 117.-- UNIVERSITY OF HAWAII CURRICULA, TUITION, FINANCES, AND FACULTY AND STAFF: 1986 AND 1987

Subject		1986	1987
Curricula offered (Manoa Campus), Fall		236	246
Bachelor's degree programs		86	85
Master's degree programs		81	84
Doctoral programs (DrPH, EdD, PhD)		46	48
Other programs 1/		23	29
Tuition per semester (full-time undergraduate, regular session):			
Manoa Campus:	Resident	$ 470	$ 515
	Nonresident	1,685	1,840
Hilo (upper division):	Resident	425	475
	Nonresident	1,575	1,720
West Oahu College:	Resident	340	365
	Nonresident	1,170	1,240
Community colleges:	Resident	135	155
	Nonresident	940	1,030
Finances, fiscal year ending June 30:			
Current fund revenues ($1,000)		339,608	349,546
Current fund expenditures ($1,000)		332,566	340,375
Number of students receiving financial aid		17,414	16,182
Faculty and staff, October		6,898	6,973
Board of Regents appointees		5,278	5,360
Full-time		3,329	3,419
Part-time		1,949	1,941
Civil Service personnel		1,620	1,613
Full-time		1,580	1,566
Part-time		40	47

1/ Includes 2-year, undergraduate, and graduate certificate programs first professional degree programs (JD, MD), and other programs.

Source: Office of Institutional Research and Analysis, University of Hawaii, Facts About the University of Hawaii, December 1986, and records.

Table 118.-- ENROLLMENT AND EARNED DEGREES CONFERRED, FOR PRIVATE COLLEGES AND UNIVERSITIES: 1984 TO 1987

[Excludes extension programs of mainland and foreign schools and other limited or specialized curriculum programs]

Year and institution 1/	Fall enrollment 2/			Earned degrees conferred 3/		
	Total	Undergrad	Graduate	Associate	Bachelor's	Master's
1984, total	8,215	8,056	159	249	643	66
Brigham Young ..	1,912	1,912	-	49	159	-
Chaminade	2,471	2,312	159	72	246	66
Hawaii Loa	430	430	-	-	66	-
Hawaii Pacific .	3,402	3,402	-	128	172	-
1985, total	8,620	8,396	224	222	663	53
Brigham Young ..	1,926	1,926	-	54	187	-
Chaminade	2,512	2,288	224	41	251	53
Hawaii Loa	475	475	-	-	45	-
Hawaii Pacific .	3,707	3,707	-	127	180	-
1986, total	9,082	8,661	421	252	736	74
Brigham Young ..	2,005	2,005	-	51	165	-
Chaminade	2,606	2,305	301	53	257	74
Hawaii Loa	400	400	-	1	70	-
Hawaii Pacific .	4,071	3,951	120	147	244	-
1987, total	9,576	9,038	538	303	827	132
Brigham Young ..	2,079	2,079	-	57	212	-
Chaminade	2,584	2,276	308	80	271	132
Hawaii Loa	399	399	-	4	68	-
Hawaii Pacific .	4,514	4,284	230	162	276	-

1/ Brigham Young University, Hawaii Campus (in Laie); Chaminade University of Honolulu; Hawaii Loa College (in Kaneohe); Hawaii Pacific College (in Honolulu).

2/ In regular credit programs.

3/ Year ended June 30. Data for 1984-1986 have been revised.

Source: Compiled by Hawaii State Department of Business and Economic Development from college officials.

Table 119.-- EDUCATIONAL CHARACTERISTICS: 1970 AND 1980

Subject	1970	1980	Percent 1970	Percent 1980
SCHOOL ENROLLMENT				
Persons 3 years old and over enrolled in school 1/	235,765	266,181	100.0	100.0
Nursery school	7,707	12,808	3.3	4.8
Private	5,524	9,608	2.3	3.6
Kindergarten	14,615	14,289	6.2	5.4
Private	1,635	2,932	0.7	1.1
Elementary (1 to 8 years)	127,678	118,991	54.2	44.7
Private	13,770	19,644	5.8	7.4
High school (1 to 4 years)	57,455	65,609	24.4	24.6
Private	7,360	10,824	3.1	4.1
College	28,310	54,484	12.0	20.5
YEARS OF SCHOOL COMPLETED				
Persons 25 years old and over	384,843	547,608	100.0	100.0
Elementary: 0 to 4 years	32,080	28,969	8.3	5.3
5 to 8 years	63,256	59,576	16.4	10.9
High school: 1 to 3 years	51,365	54,793	13.3	10.0
4 years	138,307	192,042	35.9	35.1
College: 1 to 3 years	46,088	100,813	12.0	18.4
4 or more years	53,747	111,415	14.0	20.3

1/ 1970 figures include persons 3 to 34 years old only.

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 61.

Table 120.-- SCHOOL ENROLLMENT BY AGE: 1970 AND 1980

Age	Number enrolled in school		Percent enrolled in school	
	1970	1980	1970	1980
Persons 3 years old and over enrolled in school .	238,925	266,181	...	...
3 and 4 years old	7,097	11,436	24.5	39.0
5 and 6 years old	27,683	26,070	87.4	92.0
7 to 13 years old	108,757	102,604	96.7	98.9
14 and 15 years old	30,409	31,741	95.8	98.6
16 and 17 years old	26,362	31,711	90.8	93.4
18 and 19 years old	14,486	16,869	53.1	46.9
20 and 21 years old	7,672	11,164	22.4	25.6
22 to 24 years old	6,357	10,907	13.6	17.5
25 to 34 years old	6,942	15,254	6.4	8.5
35 years old and over	3,160	8,425	...	...

Source: U.S. Bureau of the Census, 1970 Census of Population, General Social and Economic Characteristics, Hawaii, PC(1)-C13 (December 1971), table 51; 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 66.

Table 121.-- YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS OLD AND OVER, BY COUNTIES AND ISLANDS: 1980

County or island	Percent high school grads	Percent 4 years or more college	County or island	Percent high school grads	Percent 4 years or more college
State	73.8	20.3	Islands:		
			Hawaii	68.9	15.2
Counties:			Maui	69.1	15.9
Hawaii	68.9	15.2	Lanai	38.2	9.4
Maui	67.7	15.3	Molokai	60.5	10.1
Kalawao	28.2	3.5	Oahu	75.6	21.7
Honolulu	75.6	21.7	Kauai	64.4	15.8
Kauai	64.1	15.7	Niihau	0	0

Source: U.S. Bureau of the Census, 1980 Census of Population and Housing, PHC80-2-13 (June 1983), and PHC80-2-183 (June 1983).

Table 122.-- YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS OLD AND OVER: ANNUAL AVERAGES, 1982-84 AND 1985-87

[Based on pooled samples of 1,772 households (5,443 persons of all ages) for 1982-1984 and 1,530 households (4,600 persons) for 1985-1987]

Years of school completed	1982-1984	1985-1987
Persons 25 years and over	571,838	642,782
None	5,306	4,299
Elementary	72,108	72,035
High school, 1 to 3 years	59,005	58,016
High school, 4 years	208,780	242,496
College, 1 to 3 years	108,446	125,379
College, 4 years	73,521	81,801
College, 5 or more years	44,671	58,755
Median (years)	12.7	12.8

Source: U.S. Bureau of the Census for the U.S. Bureau of Labor Statistics, Current Population Survey (March), annual, 1982 to 1987; machine-readable data file, special tabulation by Hawaii State Data Center.

Table 123.-- ILLITERACY AND YEARS OF SCHOOL COMPLETED: 1970-1980

[For qualifications and earlier years, see Data Book 1986, table 119]

Subject	Age group	Number	Percent
Illiterate:			
In any language, 1970	14 and over	...	1.9
In English, 1980	20 and over	...	15
Years of school completed, 1980:			
Less than 1 year	15 and over	11,218	1.5
Less than 5 years	15 and over	29,929	4.0

Source: Statistical Abstract of the United States: 1975, p. 120; U.S. Department of Education, Office of the Deputy Undersecretary for Planning, Budget and Evaluation, Adult Illiteracy Estimates for States (revised April 14, 1986); U.S. Bureau of the Census, 1980 Census of Population, PC80-1-D13 (October 1983), table 203.

Table 124.-- STANFORD ACHIEVEMENT TEST RESULTS FOR PUBLIC SCHOOL GRADES 3, 6, 8, AND 10: APRIL 21, 1987

[Percent of students taking test]

Subject and level	Norm	Grade 3	Grade 6	Grade 8	Grade 10
Reading:					
Below average	23	23	23	26	24
Average	54	58	56	55	59
Above average	23	19	21	20	17
Math:					
Below average	23	19	20	28	23
Average	54	50	47	48	49
Above average	23	31	32	24	28

Source: Hawaii State Department of Education, Test Development and Administration Section, records.

Table 125.-- SCHOLASTIC APTITUDE TEST SCORE AVERAGES: 1975 TO 1987

Component	1974-75	1979-80	1982-83	1984-85	1985-86	1986-87
Verbal 1/	415	396	393	401	403	404
Math 2/	478	472	471	476	477	477

1/ U.S. averages during this period ranged from 424 to 434.
2/ U.S. averages during this period ranged from 466 to 476.
Source: U.S. Department of Education, Center for Education Statistics, Digest of Education Statistics 1987 (May 1987), p. 95; Honolulu Star-Bulletin, September 17, 1987, pp. A-1 and A-21.

Table 126.-- FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES: 1981 TO 1985

[In thousands of dollars. Fiscal year data]

Institution	1981	1982	1983	1984	1985
All universities and colleges ...	37,927	41,150	36,522	38,299	50,421
University of Hawaii at Manoa ...	27,280	28,278	30,815	30,748	39,084

Source: National Science Foundation, Federal Support to Universities, Colleges, and Selected Nonprofit Institutions, Fiscal Year 1985, Detailed Statistical Tables (1987), pp. 99 and 101.

Table 127.-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY SYSTEM: 1981 TO 1986

Subject	1981	1982	1983	1984	1985	1986
Library locations, June 30	47	47	47	49	49	49
Oahu	22	22	22	23	23	23
Other islands	25	25	25	26	26	26
Personnel, June 30 1/	437.30	473.95	482.55	492.05	497.05	502.05
Librarians	122.00	124.40	126.00	131.00	134.00	133.00
All others	315.30	349.55	356.55	361.05	363.05	369.05
Hours open 2/	54	54	54	54	54	54
Collections, June 30: 3/						
Books 4/	2,118.2	2,239.0	2,203.4	2,207.4	1,976.8	2,096.8
Audio-visuals, microforms 5/	518.5	(NA)	648.7	282.2	164.0	164.1
Other print 5/	804.7	(NA)	1,494.3	2,160.6	2,393.7	2,600.6
Circulation, year ended June 30 3/	5,267.0	5,263.1	5,321.7	5,490.7	6,011.4	6,500.2

NA Not available.

1/ Full-time equivalent basis, excluding student help. For 1984 through 1986, data include permanent and temporary State general-funded positions and temporary Federal funded positions.

2/ Regular weekly totals for Hawaii State Library, 478 South King Street, Honolulu.

3/ In thousands.

4/ Statistics for automated libraries taken from "total items linked" report; for non-automated libraries, from district annual reports.

5/ Microforms included with "other print" in 1984 through 1986. Art prints, pictures, and posters included with "other print" in 1985 and 1986.

Source: Hawaii State Department of Education, Office of the State Librarian, May 5, 1987.

Table 128.-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY SYSTEM BY DISTRICTS: 1986

District	Library locations, June 30	Personnel, June 30 1/	Circulation, year ended June 30
Total system	49	502.05	6,500,175
Oahu	23	277.50	4,665,765
Hawaii State Library	1	84.00	643,142
Library for the Handicapped	1	14.50	60,839
East Oahu Library District	12	109.50	2,549,757
West Oahu Library District	9	69.50	1,412,027
Other islands	26	133.55	1,832,676
Hawaii Library District	13	59.55	923,624
Kauai Library District	5	31.50	448,229
Maui Library District 2/	8	42.50	460,823
Administration	...	91.00	1,734

District	Collections, June 30		
	Books	Audio-visuals	Other print
Total system	2,096,757	164,051	2,600,611
Oahu	1,464,904	135,922	2,289,550
Hawaii State Library	466,706	31,800	1,860,090
Library for the Handicapped	20,956	69,069	6,335
East Oahu Library District	644,703	24,341	277,330
West Oahu Library District	332,539	10,712	145,795
Other islands	631,491	28,121	311,061
Hawaii Library District	275,005	4,612	69,806
Kauai Library District	177,734	13,448	125,825
Maui Library District 2/	178,752	10,061	115,430
Administration	362	8	-

1/ Full-time equivalent basis, including permanent and temporary State general-funded and temporary Federal funded positions, but excluding student help.

2/ Includes libraries on Lanai (1 location), Maui (6 locations), and Molokai (1 location).

Source: Hawaii State Department of Education, Office of the State Librarian, May 5, 1987.

Table 129.-- UNIVERSITY OF HAWAII LIBRARY SYSTEM HOLDINGS AND CIRCULATION, BY CAMPUS: 1985 TO 1987

Subject and campus	1985	1986	1987
NUMBER OF VOLUMES, JUNE 30			
All campuses	2,443,863	2,534,421	2,616,130
University of Hawaii at Manoa	2,013,146	2,091,059	2,164,497
West Oahu College	19,444	20,796	21,577
University of Hawaii at Hilo 1/	178,555	184,192	188,692
Community colleges, total 1/	232,718	238,374	241,364
Honolulu	53,121	50,197	48,726
Kapiolani	33,471	35,507	37,215
Leeward	51,746	53,290	54,953
Windward	29,426	31,098	32,348
Kauai	34,293	35,737	36,090
Maui	30,661	32,545	32,032
CIRCULATION, YEAR ENDED JUNE 30			
All campuses	559,466	553,210	548,529
University of Hawaii at Manoa	351,280	346,500	332,036
West Oahu College	6,972	6,904	6,565
University of Hawaii at Hilo 1/	51,403	45,934	52,900
Community colleges, total 1/	149,811	153,872	157,028
Honolulu	47,355	42,355	48,448
Kapiolani	13,532	16,181	16,827
Leeward	37,831	36,899	39,339
Windward	13,738	15,466	13,842
Kauai	18,950	13,967	15,649
Maui	18,405	29,004	22,923

1/ Hawaii Community College is included with the University of Hawaii at Hilo.

Source: University of Hawaii at Manoa, University Libraries, records.

Section 4

LAW ENFORCEMENT, COURTS AND PRISONS

Statistics in this section refer to crimes committed, victims of crime, arrests, the police, attorneys, the judiciary system, prisons, and youth correctional facilities.

Major offenses reported to the police in 1986 numbered 60,700, compared with 55,400 in 1985 and 71,300 in 1980. The rate per 1,000 resident population increased from 53 in 1985 to 57 in 1986. Seventy-seven percent of the serious crimes in 1986 occurred on Oahu. For the State as a whole, major offenses known to police in 1986 included 51 murders or cases of non-negligent manslaughter, 329 rapes, 1,129 robberies, 1,095 aggravated assaults, 14,218 burglaries, 39,922 cases of larceny, and 3,486 auto thefts. The value of property reported stolen in 1986 amounted to $28 million, exclusive of motor vehicles; only 6.8 percent was recovered. Authorities confiscated 1,051,000 marijuana plants, with an estimated value of $1.05 billion, during the year. Confirmed instances of child abuse and neglect numbered 2,376. Seventeen percent of the major offenses known to police were cleared by arrest or otherwise in 1986. Forty-three percent of the persons arrested for major crimes and 25 percent of those arrested for lesser offenses in 1986 were less than eighteen years of age. The number of inmates in the ten State correctional institutions averaged 2,094 during fiscal 1987; of this number, 1,429 were adults serving time for felonies. Cases concluded in the State Supreme Court, Intermediate Court of Appeals, four circuit courts, and four district courts and their divisions during fiscal 1986 numbered 950,000, including 822,000 traffic cases. Filings in the United States District Court for Hawaii in 1986 included 1,208 civil cases, 1,558 criminal cases, and 782 bankruptcy cases. The last legal execution in Hawaii took place in 1947. There were 3,581 attorneys licensed in Hawaii as of mid-1987. Criminal justice system expenditures amounted to $145 million in fiscal 1984.

Statistics on law enforcement, courts, and corrections in Hawaii appear in the annual reports of the county police departments, the State Judiciary, the Intake Service Center, and the Administrative Office of the United States Courts. The Hawaii Criminal Justice Data Center issues quarterly and annual reports titled Crime in Hawaii. Figures on crime, the courts, and corrections in earlier years appear in Historical Statistics of Hawaii, Section 10. National data are summarized in the Statistical Abstract of the United States: 1987, Section 5.

Table 130.-- ACTUAL MAJOR (PART I) OFFENSES KNOWN TO THE POLICE, BY COUNTIES: 1976 TO 1986

[Part I offenses include murder, negligent and nonnegligent manslaughter, forcible rape, robbery, aggregated assault, burglary, larceny-theft, motor vehicle theft, and, since 1979, arson. Arson, however, is excluded from this table through 1984. Actual offenses include reported or known offenses, less unfounded cases]

Year	State total		City and County of Honolulu	Hawaii County	Kauai County	Maui County
	Number	Rate 1/				
1976	55,603	61.6	45,307	3,918	2,172	4,206
1977	57,978	63.3	46,389	4,178	2,127	5,284
1978	63,333	68.2	51,273	4,455	2,407	5,198
1979	65,597	69.0	52,310	4,634	2,425	6,228
1980	71,292	73.6	56,885	5,222	2,637	6,548
1981	63,454	64.7	48,938	5,623	2,505	6,388
1982	64,679	64.8	49,826	5,516	2,515	6,822
1983	59,086	58.0	45,874	4,869	2,303	6,040
1984	56,913	54.9	44,560	4,697	2,145	5,511
1985 2/ ..	55,372	52.7	42,475	5,147	2,144	5,606
1986 2/ ..	60,716	57.2	46,842	5,370	2,428	6,076

1/ Annual rate per 1,000 resident population, July 1 from DPED, Statistical Report 195.

2/ Includes arson, omitted before 1985. Excluding arson, the 1985 statewide total was 54,814 offenses, or 52.1 per 1,000 inhabitants.

Source: Hawaii Criminal Justice Data Center, Crime in Hawaii (annual), and data compiled from Police Department annual reports and records.

Table 131.-- ACTUAL PART I OFFENSES KNOWN TO THE POLICE, BY TYPE OF OFFENSE, FOR THE STATE OF HAWAII: 1977 TO 1986

Offense	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
All Part I offenses	57,978	63,333	65,597	71,292	63,454	64,679	59,086	56,913	55,372	60,716
Murder, non-neg. manslaughter	63	57	67	85	47	31	57	34	43	51
Negligent manslaughter	117	132	135	135	98	29	29	-	-	-
Forcible rape	227	225	296	327	314	319	300	315	310	329
Robbery	1,151	1,561	1,674	1,821	1,444	1,561	1,315	1,202	1,048	1,129
Aggravated assault	551	529	587	620	570	590	868	857	912	1,095
Burglary	16,944	17,203	16,390	17,668	16,611	16,337	13,589	12,588	12,164	14,218
Larceny	34,508	38,497	39,942	44,766	40,102	41,568	38,585	38,292	37,357	39,922
Motor vehicle theft	4,417	5,129	6,506	5,870	4,268	4,244	4,343	3,625	2,980	3,486
Arson 1/	...	...	...	...	...	...	...	...	558	486

1/ Not included in tabulations before 1985.

Source: Compiled by Hawaii Criminal Justice Data Center from Annual Reports of the Hawaii County Police Department, Honolulu Police Department, Kauai Police Department, and Maui Police Department.

Table 132.-- ACTUAL OFFENSES KNOWN TO POLICE AND OFFENSES CLEARED BY ARREST OR OTHERWISE, BY CLASS OF OFFENSE: 1976 TO 1986

[Arson, reclassified as a Part I offense effective 1979, is included as a Part II offense in this table prior to 1986]

Year	Actual offenses known to police		Number cleared by arrest or otherwise 1/		Clearances per 100 offenses 1/	
	Part I	Part II, except traffic	Part I	Part II, except traffic	Part I	Part II, except traffic
1976 ..	55,603	62,485	12,923	41,833	23.2	66.9
1977 ..	57,978	72,934	11,978	46,114	20.7	63.2
1978 ..	63,333	84,926	12,101	56,275	19.1	66.3
1979 ..	65,597	89,365	11,933	56,988	18.2	63.8
1980 ..	71,292	93,712	12,753	55,233	17.9	58.9
1981 ..	63,454	94,179	10,295	56,154	16.2	59.6
1982 ..	64,679	92,898	10,934	53,318	16.9	57.4
1983 ..	59,086	88,299	10,355	53,010	17.5	60.0
1984 ..	56,852	94,240	9,553	59,272	16.8	62.9
1985 ..	54,814	97,661	10,066	62,016	18.4	63.5
1986 ..	60,716	100,283	10,663	61,094	17.6	60.9

1/ Data include prior years' offenses cleared in current year.

Source: Data compiled by Hawaii Criminal Justice Data Center from Police Department annual reports and Uniform Crime Reporting Program.

Table 133.-- ACTUAL OFFENSES KNOWN TO POLICE AND OFFENSES CLEARED BY ARREST OR OTHERWISE, BY CLASS OF OFFENSE, BY COUNTIES: 1986

[Arson is classified as a Part I offense]

County	Actual offenses known to police		Number cleared by arrest or otherwise 2/		Clearances per 100 offenses 2/	
	Part I	Part II, except traffic	Part I	Part II, except traffic	Part I	Part II, except traffic
State total .	60,716	100,283	10,593	61,094	17.4	60.9
Honolulu	46,842	71,565	7,356	45,295	15.7	63.3
Hawaii	5,370	8,477	1,873	6,008	34.9	70.9
Kauai	2,428	3,558	498	1,507	20.5	42.4
Maui	6,076	16,683	866	8,284	14.3	49.7

1/ Data include prior years' offenses cleared in current year.

Source: Hawaii Criminal Justice Data Center, data from Uniform Crime Reports and county police department statistical reports.

Table 134.-- MAJOR OFFENSES REPORTED TO POLICE PER 100,000 POPULATION, BY RESIDENCE OF VICTIM, FOR OAHU, 1981-1982, AND KAUAI, 1978-1980

[Annual averages for Part I offenses. Resident victimization rates based on resident population estimates; visitor victimization rates, on estimated average visitor census]

Offense	Oahu		Kauai	
	Residents	Visitors	Residents	Visitors
All crimes ..	5,685.5	7,342.4	5,681.0	5,616.8
Violent crimes ...	233.0	296.2	228.0	200.0
Property crimes ..	5,452.5	7,046.2	5,453.0	5,416.8

Source: Meda Chesney-Lind and Ian Y. Lind, Visitors As Victims: Crimes Against Tourists in Two Hawaii Counties (University of Hawaii, School of Social Work, Youth Development and Research Center, Research Report No. 293, February 1984), pp. 11a and 12a.

Table 135.-- ACTUAL PART I OFFENSES KNOWN TO POLICE AND PART I OFFENSES CLEARED BY ARREST OR OTHERWISE, FOR THE STATE AND OAHU: 1986

Type of offense	Actual offenses known to police		Number cleared by arrest or otherwise 1/		Clearances per 100 offenses 1/	
	State total	Oahu only	State total	Oahu only	State total	Oahu only
All Part I offenses	60,716	46,842	10,593	7,356	17.4	15.7
Murder and nonnegligent manslaughter	51	46	16	12	31.4	26.1
Manslaughter (neg.) ...	-	-	-	-	-	-
Rape	329	241	197	150	59.9	62.2
Robbery	1,129	1,052	268	240	23.7	22.8
Aggravated assault	1,095	737	571	322	52.1	43.7
Burglary	14,218	10,675	1,519	798	10.7	7.5
Larceny over $200	14,183	10,978	7,411	5,436	18.6	17.6
Larceny, $50-$200	10,052	7,830				
Larceny, under $50	15,687	12,038				
Motor vehicle theft ...	3,486	2,858	541	351	15.5	12.3
Arson	486	387	70	47	14.4	12.1

1/ Data include clearance of offenses reported in previous years.

Source: Hawaii Criminal Justice Data Center, tabulation from Uniform Crime Reporting program.

Table 136.-- PERSONS ARRESTED FOR PART I AND PART II OFFENSES, BY AGE AND SEX, FOR COUNTIES: 1986

Subject	State total	Counties			
		Honolulu	Hawaii	Maui	Kauai
PART I OFFENSES					
Total	11,453	8,461	1,392	914	686
Juveniles	4,905	3,638	615	345	307
Male	3,841	2,836	472	284	249
Female	1,064	802	143	61	58
Adults	6,548	4,823	777	569	379
Male	4,973	3,659	555	446	313
Female	1,575	1,164	222	123	66
PART II OFFENSES (EXCEPT TRAFFIC)					
Total	38,817	28,778	4,320	3,319	2,400
Juveniles	9,729	6,905	1,177	649	998
Male	6,469	4,625	796	397	651
Female	3,260	2,280	381	252	347
Adults	29,088	21,873	3,143	2,670	1,402
Male	24,766	18,702	2,578	2,274	1,212
Female	4,322	3,171	565	396	190

Source: Hawaii Criminal Justice Data Center, tabulation from Uniform Crime Reporting program.

Table 137.-- WHITE COLLAR CRIME KNOWN TO THE U.S. ATTORNEY FOR HAWAII: 1984 AND 1985

Offense	Counts		Value 1/ ($1,000)	
	1984	1985	1984	1985
All white collar offenses	1,001	801	62,348	48,353
Bribery	3	1	1	2
Corruption	61	4	19	16
Counterfeiting or forgery	228	65	115	205
Embezzlement	172	146	540	604
False statement	113	120	9,300	740
Fraud	375	305	34,252	7,252
Tax evasion	12	33	17,585	3,404
Racketeering in corrupt organizations ..	17	93	217	36,100
Other business crimes	3	6	318	-
Other white collar crimes	17	28	1	30

1/ Value of goods, money, or services that were illegally obtained, attempted to be obtained, or conspired to be obtained.

Source: Hawaii Criminal Justice Data Center, White Collar Crime in Hawaii (January 1987), pp. 26-27.

Table 138.-- MARIJUANA CONFISCATED OR DESTROYED BY AUTHORITIES, BY COUNTIES: 1984 TO 1986

Calendar year	Number of plants, by counties					Estimated value 1/ (million dollars)
	State total	Hawaii	Maui	Honolulu	Kauai	
1984	533,238	325,761	37,388	120,238	49,851	533
1985	809,839	563,621	79,537	73,452	93,229	810
1986	1,050,650	742,238	101,662	31,372	175,378	1,051

1/ At $1,000 per plant. Excludes value of confiscated processed marijuana.

Source: Compiled from county police departments by the Hawaii Criminal Justice Data Center.

Table 139.-- CHILD ABUSE AND NEGLECT REPORTS: 1980 TO 1985

[Revised from Data Book 1986, table 136]

Subject	1980	1981	1982	1983	1984	1985
Reports	2,104	2,358	2,683	3,631	4,380	4,303
Confirmed ..	1,057	1,136	1,378	1,621	2,181	2,376

Source: Hawaii State Department of Social Services and Housing, records.

Table 140.-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, BY CATEGORY: 1976 TO 1986

Year	Locally stolen motor vehicles			Other stolen property		
	Value stolen ($1,000)	Value recovered		Value stolen ($1,000)	Value recovered	
		Amount ($1,000)	Percent		Amount ($1,000)	Percent
1976 ...	5,732.7	4,243.4	74.0	14,242.9	1,229.6	8.6
1977 ...	6,909.2	5,004.2	72.4	17,869.7	1,507.9	8.4
1978 ...	9,284.8	6,485.0	69.8	22,430.8	2,187.2	9.8
1979 ...	14,469.1	9,999.0	69.1	24,903.4	2,639.5	10.6
1980 ...	14,075.2	10,296.9	73.2	31,832.9	2,102.2	6.6
1981 ...	12,033.6	9,387.9	78.0	31,667.8	2,380.6	7.5
1982 ...	12,524.0	8,328.0	66.5	26,001.2	2,028.3	7.8
1983 ...	13,904.4	9,474.9	68.1	25,941.6	2,151.1	8.3
1984 ...	12,327.9	9,110.0	73.9	26,576.6	1,861.3	7.0
1985 ...	10,376.8	7,683.9	74.0	24,114.3	2,003.5	8.3
1986 ...	11,491.6	7,857.3	68.4	28,236.2	1,931.2	6.8

Source: Hawaii Criminal Justice Data Center, tabulations from Uniform Crime Reports.

Table 141.-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, BY COUNTIES: 1986

Subject	State total	Counties			
		Honolulu	Hawaii	Maui	Kauai
Value of property stolen ($1,000)	39,727.8	31,032.2	2,565.5	4,741.7	1,388.4
Motor vehicles	11,491.6	9,222.9	462.2	1,232.5	574.0
Other property	28,236.2	21,809.3	2,103.3	3,509.2	814.4
Value of stolen property recovered 1/ ($1,000)	9,788.5	7,311.5	592.3	1,313.7	571.0
Motor vehicles	7,857.3	5,912.0	365.7	1,071.2	508.4
Other property	1,931.2	1,399.5	226.6	242.5	62.6
Percent of value recovered	24.6	23.6	23.1	27.7	41.1
Motor vehicles	68.4	64.1	79.1	86.9	88.6
Other property	6.8	6.4	10.8	6.9	7.7

1/ Includes property stolen in previous years.

Source: Hawaii Criminal Justice Data Center, tabulation from Uniform Crime Reporting program.

Table 142.-- MAJOR OFFENSES, OFFENSES CLEARED, PERSONS ARRESTED, AND VALUE OF PROPERTY STOLEN AND RECOVERED, FOR THE CITY AND COUNTY OF HONOLULU: 1983 TO 1986

Subject	1983	1984	1985	1986
Actual major (Part I) offenses known to police	45,874	44,497	42,094	46,449
Murder; non-negligent manslaughter	45	25	36	46
Manslaughter (negligent)	29	23	66	57
Rape	247	251	250	237
Robbery	1,228	1,096	958	1,026
Aggravated assault	576	539	553	724
Burglary	9,997	9,284	8,984	10,641
Larceny	29,853	30,198	28,825	30,859
Over $50	16,796	18,050	17,209	18,815
Auto theft	3,899	3,081	2,422	2,859
Major (Part I) offenses cleared 1/	8,047	7,199	7,916	7,937
Per 100 offenses known	17.5	16.2	18.8	17.1
Persons arrested for Part I offenses	9,002	7,316	7,971	8,441
Juveniles under 18 years	3,589	3,140	3,529	3,618
Male	2,740	2,435	2,712	2,818
Female	849	705	817	800
Adults, 18 years and over	5,413	4,176	4,442	4,823
Value of property reported stolen 2/	22,798	24,456	21,398	25,425
Value of stolen property recovered 3/	1,946	2,038	1,619	2,203
Percent recovered	8.5	8.3	7.6	8.7

1/ By arrest or otherwise. Includes prior years offenses.
2/ Thousands of dollars. Excludes stolen automobiles.
3/ Includes prior years stolen property recovered.
Source: Honolulu Police Department, Annual Statistical Report (annual).

Table 143.-- POLICE PROTECTION AND CORRECTION EMPLOYMENT, PAYROLLS, AND EXPENDITURES BY STATE AND COUNTY GOVERNMENTS: 1983

Subject	Total	Police protection	Correction
Full-time equivalent employment, Oct. ...	3,616	2,712	904
October payroll ($1,000)	6,361	5,162	1,199
Expenditures, fiscal year (mil. dol.) ...	1/ 169	81	28

1/ Includes $60 million for judicial and legal, not shown separately.

Source: Data from U.S. Bureau of the Census, cited in Statistical Abstract of the United States: 1987, p. 166.

Table 144.-- CRIMINAL JUSTICE POSITIONS AND EXPENDITURES: FISCAL YEAR 1983-1984

Agency	Authorized positions (full-time equivalent)	Expenditures (dollars)
Total	5,339.0	1/ 145,489,650
Police	2/ 2,831.0	78,320,670
Prosecutors	243.0	1/ 7,920,380
Judiciary	1,191.0	32,002,471
Corrections	996.0	25,458,647
Intake Service Centers	58.0	1,353,434
Hawaii Paroling Authority	20.0	434,048

1/ Revised from Data Book 1986, table 138.

2/ Based on full-time positions only (sworn and non-sworn).

Source: Department of the Attorney General, Hawaii Criminal Justice Data Center, Management and Administrative Statistics for the Criminal Justice System in the State of Hawaii, Research and Statistics Report MAS3 (June 1986), pp. 169-170, as revised.

Table 145.-- COURTS, JUDGES, MAGISTRATES, AND ATTORNEYS: 1985 TO 1987

[As of June 30]

Subject	1985	1986	1987
Federal judges and magistrates: 1/			
U.S. Bankruptcy Court	1	1	1
U.S. District Court	7	7	8
State justices and judges: 2/			
Supreme Court	5	5	5
Intermediate Court of Appeals	3	3	3
Circuit Courts 3/	24	24	24
Assigned to Family Court	1	1	1
District Courts 4/	29	30	30
Assigned to Family Court	7	8	8
Land Court	(5/)	(5/)	(5/)
Tax Appeal Court	(5/)	(5/)	(5/)
Attorneys licensed in Hawaii 6/	3,180	3,373	3,581

1/ Full-time and part-time. Includes visiting judges and magistrates. In addition, one judge of the U.S. Court of Appeals maintains an office in Honolulu.

2/ Authorized full-time positions.

3/ Includes one judge assigned to the Family Court, a division of the Circuit Courts. In addition, Circuit Court judges may be assigned to hear matters before the Land Court and Tax Appeal Court, both of which are specialized courts separate from the Circuit Courts. There are four Circuit Courts, convened in five locations.

4/ Includes judges assigned to the Family Court, a division of the Circuit Courts. There are four District Courts, one in each of the four judicial circuits, convened in 23 locations.

5/ Caseload assigned to Circuit Court judges.

6/ Includes judges.

Source: Office of the Clerk, U.S. District Court, records; Office of the Administrative Director of the Courts, State Judiciary, records.

Table 146.-- UNITED STATES DISTRICT COURT CASES: 1984 TO 1986

[Years ended June 30]

Subject	1984	1985	1986
Civil cases:			
Commenced	1,459	1,575	1,208
Terminations	1,347	1,104	994
Pending, end of period	1,553	2,024	2,238
Criminal cases: 1/			
Commenced	3,030	3,066	1,558
Terminations	2,833	3,005	1,697
Pending, end of period	1,255	1,315	1,164
Bankruptcy:			
Commenced, total	630	609	782
Business	249	246	253
Nonbusiness	381	363	529
Terminations	331	483	586
Pending, end of period	1,741	1,867	2,063

1/ Transfers included for 1984 but excluded thereafter.

Source: Administrative Office of the United States Courts, Annual Report of the Director for 1984, 1985, and 1986.

Table 147.-- STATE JUDICIARY TERMINATIONS: 1977 TO 1987

[Fiscal years ended June 30]

Court and type of case	1977	1978	1979	1980	1981	1982
All courts, total ..	685,282	719,773	818,750	760,231	890,048	946,347
Supreme Court 1/	563	729	876	1,023	1,158	1,434
Civil cases	97	95	111	75	116	168
Criminal cases	41	68	149	150	136	140
Other proceedings	425	566	616	798	906	906
Intermediate Court of Appeals 2/	...	...	...	42	350	298
Civil cases	...	...	...	13	157	136
Criminal cases	...	...	...	21	45	27
Other cases	...	...	...	8	148	135
Circuit Courts proper ...	8,626	9,151	8,744	10,581	8,778	9,882
Civil cases	3,732	4,073	3,367	3,871	3,627	4,401
Criminal cases	1,532	1,716	1,962	2,279	1,853	2,145
Part I offenses	766	764	837	844	788	937
Part II offenses	766	952	1,125	1,435	1,065	1,208
Other proceedings	3,362	3,362	3,415	4,431	3,298	3,336
Family Courts	19,010	20,194	20,952	21,525	20,442	21,179
Civil cases	8,538	9,314	10,277	10,510	9,252	10,121
Criminal cases	24	50	40	81	45	47
Other proceedings	10,448	10,830	10,635	10,934	11,145	11,011
District Courts	657,083	689,699	788,178	727,060	859,320	913,554
Civil cases	10,330	10,200	11,382	11,894	15,992	22,597
Traffic cases	609,323	640,468	733,196	669,033	792,767	841,844
Other violations	18,926	18,888	22,096	22,696	24,401	24,066
Criminal cases	18,504	20,143	21,504	23,437	26,160	25,047
Part I offenses	3,254	3,368	3,651	3,513	4,426	4,275
Part II offenses	15,250	16,775	17,853	19,924	21,734	20,772

Continued on next page.

Table 147.-- STATE JUDICIARY TERMINATIONS: 1977 TO 1987 -- Con.

Court and type of case	1983	1984	1985	1986	1987
All courts, total ..	999,447	930,586	945,903	950,387	860,866
Supreme Court 1/	1,483	1,817	2,769	2,588	2,371
Civil cases	250	174	199	287	262
Criminal cases	164	228	241	312	254
Other proceedings	1,126	1,069	2,329	1,989	1,855
Intermediate Court of Appeals 2/	222	183	179	224	248
Civil cases	91	97	70	87	91
Criminal cases	35	23	28	42	49
Other cases	96	63	81	95	108
Circuit Courts proper ...	10,304	21,573	13,248	13,467	10,604
Civil cases	4,732	13,918	6,288	7,465	5,622
Criminal cases	1,865	4,383	3,252	2,717	2,305
Part I offenses	737	1,810	1,309	1,073	925
Part II offenses	1,128	2,573	1,943	1,644	1,380
Other proceedings	3,707	3,272	3,708	3,285	2,677
Family Courts	22,176	27,583	28,773	34,635	40,130
Civil cases	9,619	12,722	11,833	16,038	14,294
Criminal cases	45	233	149	163	650
Other proceedings	12,512	14,628	16,791	18,434	25,186
District Courts	965,262	879,430	900,934	899,473	807,513
Civil cases	18,926	18,920	19,509	20,354	20,402
Traffic cases	897,713	811,816	831,505	822,295	730,573
Other violations	23,351	20,803	18,101	26,842	24,885
Criminal cases	25,272	27,891	31,819	29,982	31,653
Part I offenses	5,259	5,340	4,777	4,326	4,567
Part II offenses	20,013	22,551	27,042	25,656	27,086

1/ Data exclude cases transferred to the Intermediate Court of Appeals: 281 in 1980, 121 in 1981, 132 in 1982, 94 in 1983, 105 in 1984, 142 in 1985, 135 in 1986, and 137 in 1987.

2/ The Intermediate Court of Appeals was installed on April 18, 1980. Data exclude cases transferred back to the Supreme Court: 1 in 1981, 4 in 1982, 1 in 1983, 1 in 1984, and 1 in 1987.

Source: Hawaii State Judiciary, Office of the Administrative Director of the Courts, records.

Table 148.-- STATE JUDICIARY CASES FILED, BY TYPE OF ACTION: 1984 TO 1986

[Years ended June 30]

Court and type of action	1984	1985	1986
Supreme Court, total	1,906	2,946	2,564
Primary cases	572	628	734
Appeals	534	570	677
Original proceedings	38	58	57
Supplemental proceedings	1,334	2,318	1,830
Intermediate Court of Appeals, total	158	208	222
Primary cases	101	132	132
Appeals	100	132	132
Original proceedings	1	-	-
Supplemental proceedings	57	76	90
Circuit Courts Proper, total	14,453	14,633	14,297
Primary proceedings	13,315	13,449	13,338
Civil actions	6,960	6,709	6,718
Probate proceedings	1,738	1,797	1,733
Guardianship proceedings	356	375	518
Miscellaneous proceedings	1,280	1,614	1,309
Criminal actions	2,981	2,954	3,060
Part I offenses	1,071	1,193	1,086
Part II offenses	1,910	1,761	1,974
Supplemental proceedings	1,138	1,184	959
Family Courts, total	27,644	30,049	33,902
Primary proceedings, referrals	22,250	24,409	26,502
Marital actions, proceedings	7,749	7,634	7,508
Adoption proceedings	759	770	677
Paternity/parental proceedings	1,398	993	1,034
Miscellaneous proceedings	3,011	2,884	3,123
Criminal actions	157	203	364
Adults' referrals	871	2,028	2,394
Children and minors' referrals	8,305	9,897	11,402
Supplemental proceedings	5,394	5,640	7,400
District Court, total	919,460	930,341	960,221
Civil	19,607	20,622	21,263
Regular	14,219	15,324	15,671
Small claims	5,388	5,298	5,592
Traffic	847,327	853,483	872,292
Moving - arrest and citation	190,216	200,158	196,385
Non-moving	134,406	139,493	124,217
Parking	522,705	513,832	551,690
Other violations	24,153	23,730	36,070
Criminal actions	28,373	32,506	30,596
Part I offenses	5,434	4,732	4,324
Part II offenses	22,939	27,774	26,272

Source follows next table.

Table 149.-- STATE JUDICIARY CASE TERMINATIONS, BY TYPE: 1984 TO 1986

[Years ended June 30]

Court and type of termination	1984	1985	1986
Supreme Court, total	1,922	2,911	2,723
Opinion filed	220	283	377
Dismissal motion granted	31	19	53
Withdrawn or discontinued	100	106	56
Transferred	105	142	135
Other disposition	1,466	2,361	2,102
Intermediate Court of Appeals, total	184	179	224
Opinion filed	115	99	124
Dismissal motion granted	1	-	1
Withdrawn or discontinued	7	6	3
Transferred	1	-	-
Other disposition	60	74	96
Circuit Courts Proper, total	21,573	13,248	13,467
No service	991	332	466
No answer	965	436	382
No statement of readiness	78	23	196
Dismissal: Notice of	1,630	799	1,088
Stip. for	6,052	3,347	3,823
By judge	1,646	901	904
Nonjury: Trial	379	272	206
Trial not completed	17	14	60
Jury: Verdict	586	377	327
Trial not completed	41	16	11
No trial held	2,481	1,950	1,634
Hearings: Contested	246	361	241
Uncontested	1,957	1,905	1,756
Others	4,504	2,515	2,373
Family Courts, total	27,583	28,773	34,635
Nolle prosequi	23	12	14
Dismissal	89	33	24
Nonjury: Trial	67	35	115
Trial not completed	2	-	4
Jury: Verdict	-	1	3
Trial not completed	1	-	-
No trial held	1,083	909	1,450
Hearings: Contested	6,346	4,071	3,508
Uncontested	8,957	10,407	14,041
Counseling service	4,598	6,338	6,299
Others	6,417	6,967	9,177

Continued on next page.

Table 149.-- STATE JUDICIARY CASE TERMINATIONS, BY TYPE: 1984 TO 1986 -- Con.

[Years ended June 30]

Court and type of termination	1984	1985	1986
District Court, total	879,430	900,934	899,473
Felonies	1,649	1,689	1,302
Stricken or discharged	381	230	256
By commitment to Grand Jury	140	52	33
By commitment to Circuit Court	1,128	1,407	1,013
Misdemeanors	26,242	30,130	28,680
By discharge or dismissal	7,405	7,833	8,137
By nolle prosequi	1,459	1,306	1,580
Stricken	1,499	1,546	1,463
By bail forfeiture	2,278	2,396	2,043
By commitment to Circuit Court	382	426	398
By conviction	13,219	16,623	15,059
Civil cases	18,920	19,509	20,354
By discontinuance or dismissal	7,392	7,086	8,149
By default or confession	10,689	11,644	11,439
By trial	720	662	647
By commitment to Circuit Court	119	117	119
Traffic and other violations	832,619	849,606	849,137
By discontinuance or dismissal	9	-	-
By discharge or dismissal	114,989	104,748	87,593
By nolle prosequi	19,840	21,479	17,247
Stricken	61,563	58,742	48,547
By bail forfeiture	516,075	518,649	550,982
By commitment to Circuit Court	73	96	61
By conviction	120,070	145,892	144,707

Source: The Judiciary, State of Hawaii, Annual Report, July 1, 1983 to June 30, 1984, Statistical Supplement, tables 1A, 1B, 7, 17, and 22; The Judiciary, State of Hawaii, Annual Report, July 1, 1984 to June 30, 1985, Statistical Supplement, tables 1A, 1B, 7, 17, and 22; The Judiciary, State of Hawaii, Annual Report, July 1, 1985 to June 30, 1986, Statistical Supplement, tables 1A, 1B, 7, 17, and 22.

Table 150.-- INMATES PRESENT IN STATE CORRECTIONAL FACILITIES: ANNUAL AVERAGES, 1977 TO 1987

[Mean head count for fiscal years ended June 30. Excludes Kauai County Jail before June 20, 1977, when it was transferred to State control]

Year	All categories	Adult facilities 1/			Juvenile facilities 2/	
		Felons	Misdemeanants 3/	Not sentenced	Boys	Girls
1977	544	319	39	117	56	13
1978	592	351	48	129	54	10
1979	698	412	48	170	61	7
1980	817	480	74	177	76	10
1981	952	561	82	210	88	11
1982	1,155	681	86	295	85	8
1983	1,402	812	120	391	73	6
1984	1,652	974	166	435	71	6
1985	1,898	1,223	204	392	72	7
1986	2,009	1,331	240	348	78	12
1987	2,094	1,429	202	374	79	10

1/ As of 1987, data include eight separate facilities: Oahu, Hawaii, Kauai, and Maui Community Correctional Centers, Kulani Correctional Facility, Halawa High Security Facility, Women's Community Correctional Center, and Waiawa Correctional Facility.

2/ Hawaii Youth Correctional Facility.

3/ Includes felon probationers serving jail terms under one year.

Source: Hawaii State Intake Service Centers, October 28, 1987.

Table 151.-- MEDIAN AGES AND AVERAGE SENTENCES OF FELON POPULATION: 1977 TO 1987

[Years ended June 30. These data cover only those felons under the jurisdiction of the State's correctional facilities. These include long-term felons and those in hospitals, in mainland facilities, and on community release status. Parolees are not included. Average sentence calculations include life with parole sentences]

Year	Median age (years) 1/		Average sentences (months)				
			Felons admitted		Felons released		
	At admission	Currently as of June 30	Minimum	Maximum	Minimum	Maximum	Time served
1977	26.5	25.4	55.9	102.2	32.7	120.7	32.6
1978	25.3	27.6	52.6	99.1	38.5	108.0	35.8
1979	26.5	26.6	59.8	119.0	34.8	89.2	36.9
1980	26.1	25.3	69.4	151.3	53.7	113.6	46.4
1981	27.0	27.8	40.7	173.5	55.7	124.9	47.4
1982	26.8	27.3	38.8	135.8	58.8	131.6	52.2
1983	27.5	29.2	49.2	127.2	40.5	98.5	47.5
1984	27.9	30.3	53.8	142.2	39.7	112.8	46.2
1985	29.3	28.2	47.5	145.7	53.0	126.0	42.7
1986	30.4	29.4	33.3	133.5	54.1	122.7	39.8
1987	27.0	31.0	45.9	190.8	42.5	132.4	38.0

1/ For felon population on June 30. Due to a change in data systems, data for 1983 and later years are not directly comparable with figures for previous years.

Source: State Department of Corrections, State Intake Service Centers, Felony Offender Computerized Update System (FOCUS), Comprehensive Offender Monitoring and Program Assessment System (COMPAS), and Hawaii Paroling Authority Records.

Table 152.-- HAWAII PAROLING AUTHORITY STATISTICAL SUMMARY: 1985 AND 1986

[Years ended June 30]

Item	1985	1986
Number of parolees, June 30 1/	603	797
Parolees in Hawaii	314	473
Parolees outside Hawaii	53	83
Absconders and suspensions (cumulative)	236	241
Minimum imprisonment terms fixed	1,496	1,241
Number of persons for whom terms fixed	543	435
Persons considered for parole	286	444
Paroles tentatively granted	192	330
Paroles denied	94	114
Persons reconsidered for minimum terms previously set	115	204
Terms reset	2	1
Terms reset/parole granted	101	187
Terms undisturbed	9	14
Deferred reconsideration	3	2
Parole violation hearings	38	58
Parole revocations	27	49
Continued on parole	8	6
Deferred decision/hearing	3	3
Pardon investigations	27	16
Persons pardoned	18	13
Persons whose paroles were suspended because their whereabouts unknown	22	19
Discharges	82	76
Discharged from parole	54	57
Final discharge	27	16
Deceased	1	3

1/ In addition, provided courtesy supervision to 16 interstate cases on June 30, 1985 and 20 on June 30, 1986.

Source: Hawaii State Department of Social Services and Housing, Annual Report of the Hawaii Paroling Authority.

Section 5

GEOGRAPHY AND ENVIRONMENT

This section relates to land and water areas, physical geography, climate, air and water quality, noise, and other geographic and environmental measurements of Hawaii. Most statistics on land use and ownership, however, appear in Section 6.

The State consists of eight major islands and 124 minor islands with a total land area of 6,425 square miles and a general coastline of 750 miles. Honolulu is 214 miles from Hilo, 1,367 miles from Kure Atoll (the westernmost end of the State), 2,397 miles from San Francisco, and 4,829 miles from Washington, D.C. The highest peak in the State is Mauna Kea, 13,796 feet above sea level; the longest stream is Kaukonahua Stream, Oahu, 33 miles in length; the most extensive lake or similar body is Kawainui Marsh, 1,000 acres; and the highest named waterfall is Kahiwa, Molokai, a 1,750-foot cascade. Various measures of air pollution, such as suspended particulate matter, indicate that Honolulu is one of the cleanest cities in the nation. There is also relatively little water pollution: the 34 major beaches surveyed in 1986 were found to have fecal coliform levels per 100 ml. ranging from 2.0 to 116, and all of them were within EPA standards. More than 1,200 species, subspecies, and varieties of native fauna and flora have been proposed or accepted for inclusion on lists of endangered, threatened, or extinct organisms. Climatically, Hawaii is marked by remarkably balmy temperatures and wide variations in rainfall. The all-time temperature range at Honolulu International Airport, for example, was from 53° to 94°F. Average precipitation, however, ranges from less than nine inches at Kawaihae to 444 inches atop Waialeale. The largest volcanic eruption in Island history (begun in 1983) had produced almost one billion cubic yards of lava by July 1987. The worst earthquake (1868) attained 7.5 on the Richter scale, the highest tsunami wave (1946) reached 56 feet, and the most destructive hurricane (Iwa, 1982) gusted to 117 miles per hour. Water withdrawn for use in 1985 averaged 1.4 billion gallons per day, compared with 2.9 billion in 1980 and 2.8 billion in 1975. Among 31 neighborhoods on Oahu, median noise levels in 1981-1982 ranged from 37 decibels (in Mililani) to 57 decibels (in Pawaa).

Important sources of data include the U.S. Geological Survey, National Ocean Survey, National Weather Service, U.S. Bureau of the Census Geography Division, the Division of Water and Land Development of the State Department of Land and Natural Resources, the State Department of Health, and the University of Hawaii Institute of Geophysics. Detailed information is given in Atlas of Hawaii, 2nd edition, published by the University of Hawaii Press in 1983. National data are reported in Statistical Abstract of the United States: 1987, Section 6.

Table 153.-- GREAT CIRCLE DISTANCES BETWEEN SPECIFIED PLACES

Place	Statute miles	Kilometers
DISTANCES FROM HONOLULU INTERNATIONAL AIRPORT		
Hawaiian Islands locations:		
Hilo, Hawaii	214	344
Kailua, Kona, Hawaii	168	270
Kahului, Maui	98	158
Lanai Airport	72	116
Molokai Airport	54	87
Lihue, Kauai	103	166
Puuwai, Niihau	152	245
Nihoa	283	455
Necker Island	520	837
French Frigate Shoals	556	895
Gardner Pinnacles	688	1,107
Maro Reef	851	1,369
Laysan Island	936	1,506
Lisianski Island	1,065	1,714
Pearl and Hermes Atoll	1,208	1,944
Midway Islands	1,309	2,106
Kure Atoll	1,367	2,200
Other Pacific locations:		
Apra Harbor, Guam	3,806	6,124
Auckland, New Zealand	4,393	7,068
Hong Kong	5,541	8,915
Johnston Atoll	820	1,319
Kingman Reef	1,073	1,726
Kiritimati (Christmas Island), Kiribati	1,344	2,163
Majuro, Marshall Islands	2,271	3,654
Manila, Philippines	5,293	8,516
Nuku Hiva, Marquesas Islands	2,400	3,864
Pago Pago, American Samoa	2,606	4,193
Palmyra Atoll	1,101	1,772
Papeete, Tahiti	2,741	4,410
Suva, Fiji	3,159	5,083
Sydney (Port Jackson), Australia	5,070	8,158
Tokyo, Japan	3,847	6,190
Wake Island	2,294	3,691
North and South American locations:		
Anchorage, Alaska	2,781	4,475
Cape Horn, Chile	7,457	11,998

Continued on next page.

Table 153.-- GREAT CIRCLE DISTANCES BETWEEN SPECIFIED PLACES -- Con.

Place	Statute miles	Kilometers
DISTANCES FROM HONOLULU INT. AIRPORT--Con.		
North and South American locations, con.:		
Chicago, Illinois	4,179	6,724
Cristobal, Canal Zone	5,214	8,389
Los Angeles, California	2,557	4,114
Miami, Florida	4,856	7,813
New York, New York	4,959	7,979
Portland, Oregon	2,595	4,175
San Diego, California	2,610	4,199
San Francisco, California	2,397	3,857
Seattle, Washington	2,679	4,311
Vancouver, B.C.	2,709	4,359
Tijuana, Mexico	2,616	4,209
Washington, D.C.	4,829	7,770
London, England	7,226	11,627
Bombay, India	8,010	12,888
Ghanzi, Botswana 1/	12,417	19,979
Equator, due south of Honolulu	1,470	2,367
North Pole	4,740	7,631
OTHER DISTANCES		
Hilo to --		
Los Angeles, California	2,447	3,937
San Francisco, California	2,315	3,725
Kure Atoll to --		
Cape Kumukahi, Puna, Hawaii 2/	1,523	2,451
Log Point, Elliot Key, Florida 3/	5,852	9,416
Tokyo, Japan	2,486	4,000
West Quoddy Head, Maine	5,788	9,313

1/ Ghanzi, Botswana, is Honolulu's antipode, that is, the point precisely opposite to it on the globe.

2/ Cape Kumukahi and Kure Atoll are the points farthest apart in the Hawaiian Archipelago and State of Hawaii.

3/ Log Point and Kure Atoll are the points farthest apart in the fifty states.

Source: U. S. Department of the Interior, Geological Survey, Elevations and Distances in the United States (1973), pp. 22-23, and distance computations prepared for the Department of Planning and Economic Development.

Table 154.-- LATITUDES AND LONGITUDES OF SELECTED PLACES

Island and place	Latitude (North)	Longitude (West)
Hawaii:		
Hilo (General Lyman Field)	19°43'	155°04'
Cape Kumukahi	19°31'	154°49'
Ka Lae	18°56'	155°41'
Keahole Point	19°44'	156°04'
Upolu Point	20°16'	155°52'
Maui:		
Wailuku	20°53'	156°30'
Kahului (Airport)	20°54'	156°26'
Hana	20°45'	155°59'
Cape Hanamanioa	20°35'	156°25'
Lahaina	20°52'	156°41'
Kahoolawe:		
Puu Moaulanui	20°34'	156°34'
Lanai:		
Airport	20°48'	156°57'
Molokai:		
Kaunakakai	21°05'	157°02'
Laau Point	21°06'	157°19'
Cape Halawa	21°10'	156°43'
Oahu:		
Honolulu: International Airport ...	21°20'	157°55'
Aloha Tower	21°19'	157°52'
Kaena Point	21°35'	158°17'
Kahuku Point	21°43'	157°59'
Makapuu Point	21°19'	157°39'
Diamond Head	21°16'	157°49'
Kauai:		
Lihue (Kauai Airport)	21°59'	159°21'
Mana	22°02'	159°46'
Kilauea Point	22°14'	159°24'
Niihau:		
Puuwai	21°54'	160°12'
Kure Atoll	28°25'	178°22'

Source: U.S. Board on Geographic Names, Gazetteer No. 24, Hawaiian Islands (1956); U.S. Department of Commerce, National Climatic Data Center, Local Climatological Data, Annual Summary with Comparative Data, 1984 for Hilo, Kahului, Honolulu, and Lihue; U.S. Geological Survey, Elevations and Distances in the United States (1973), pp. 22-23; Bernice P. Bishop Museum, Geography and Map Division, information provided April 29, 1986.

Table 155.-- WIDTHS AND DEPTHS OF CHANNELS

Channel 1/	Width 2/		Depth 3/	
	Statute miles	Kilometers	Feet	Meters
Alenuihaha (Hawaii-Maui)	29.6	47.6	6,810	2,076
Alalakeiki (Kahoolawe-Maui)	6.7	10.8	822	251
Kealaikahiki (Kahoolawe-Lanai)	17.8	28.6	1,086	331
Auau (Lanai-Maui)	9.5	15.3	252	77
Kalohi (Lanai-Molokai)	9.2	14.8	540	165
Pailolo (Maui-Molokai)	8.8	14.2	846	258
Kaiwi (Molokai-Oahu)	25.8	41.5	2,202	671
Kauai (Oahu-Kauai)	72.1	116.0	10,890	3,319
Kaulakahi (Kauai-Niihau)	17.2	27.7	3,570	1,088
Niihau-Kaula	21.5	34.6	5,364	1,635
Niihau-Nihoa	133.9	215.5	14,550	4,435
Nihoa-Necker I.	179.6	289.0	12,600	3,840
Necker I.-French Frigate Shoals	100.3	161.4	12,780	3,895
French Frigate Shoals-Gardner Pinnacles ..	137.0	220.5	11,448	3,489
Gardner Pinnacles-Maro Reef	155.5	250.3	12,300	3,749
Maro Reef-Laysan I.	65.9	106.1	8,280	2,524
Laysan I.-Lisianski I.	137.4	221.1	16,830	5,130
Lisianski I.-Pearl and Hermes Atoll	162.6	261.7	17,400	5,304
Pearl and Hermes Atoll-Midway Islands	86.9	139.9	15,840	4,828
Midway Islands-Kure Atoll	57.1	91.9	12,960	3,950

1/ Listed in geographic order, from east to west. The channels between major islands were measured between the following points:

Alenuihaha: Upolu Pt., Hawaii, to Puhilele Pt., Maui;
Alalakeiki: Lae o ka Ule, Kahoolawe, to Nukuele Pt., Maui;
Kealaikahiki: Makaalae, Kahoolawe, to Kamaiki Pt., Lanai;
Auau: Kikoa Pt., Lanai, to Lahaina, Maui;
Kalohi: Wahie Pt., Lanai, to Kamalo, Molokai;
Pailolo: Lipoa Pt., Maui, to Pohakuloa, Molokai;
Kaiwi: Ilio Pt., Molokai, to Makapuu Pt., Oahu;
Kauai: Kaena Pt., Oahu, to Kamilo Pt., Kauai;
Kaulakahi: Mana Pt., Kauai, to Kaunuopou, Niihau.

2/ Width measured in statute miles between designated points on National Ocean Survey and Coast and Geodetic Survey charts. Width in kilometers calculated from miles (1 mile = 1.60934 km.).

3/ Depths given are the deepest soundings noted at or near the line joining the two designated points, on National Ocean Survey and Coast and Geodetic Survey charts. Depths measured in fathoms and converted to feet and meters (1 fathom = 6 feet = 1.8288 meters).

Source: Compiled by Lee S. Motteler, Geography and Map Division, Bernice P. Bishop Museum, in November 1980.

Table 156.-- GENERAL COASTLINE AND TIDAL SHORELINE OF COUNTIES AND ISLANDS

County and island	General coastline 1/		Tidal shoreline 2/	
	Statute miles	Kilometers 3/	Statute miles	Kilometers 3/
State total	750	1,207	1,052	1,693
Counties:				
Hawaii	266	428	313	504
Maui, including Kalawao	210	338	343	552
Honolulu	137	220	234	377
Kauai	137	220	162	261
Islands: 4/				
Hawaii	266	428	313	504
Maui	120	193	149	240
Kahoolawe	29	47	36	58
Lanai	47	76	52	84
Molokai	88	142	106	171
Oahu	112	180	209	336
Kauai	90	145	110	177
Niihau	45	72	50	80
Kaula	2	3	2	3
Northwestern Hawaiian Islands 5/	25	40	25	40
Nihoa	3	5	3	5
Necker Island	2	3	2	3
French Frigate Shoals	6	10	6	10
Laysan Island	6	10	6	10
Lisianski Island	3	5	3	5
Kure Atoll	5	8	5	8

1/ Figures are lengths of general outline of seacoast. Data for the four islands of Maui County are not consistent with the reported county total.

2/ Shoreline of outer coast, offshore islands, bays, rivers, and creeks is included to the head of tidewater or to a point where tidal waters narrow to a width of 100 feet.

3/ Derived from data expressed in statute miles; independently rounded and accordingly may not add exactly to indicated totals and subtotals. 1 mi. = 1.609 km.

4/ Data are not available for five minor islands: Molokini, Lehua, Gardner Pinnacles, Maro Reef, and Pearl and Hermes Atoll.

5/ Excludes the Midway Islands, which are part of the Hawaiian Archipelago but not legally part of the State of Hawaii. Midway has a general coastline of 20 miles and a tidal shoreline of 33 miles.

Source: U.S. Department of Commerce, National Ocean Survey, The Coastline of the United States (1975) and records.

Table 157.-- LAND AND WATER AREA OF COUNTIES AND ISLANDS: 1982

[See maps on page 6]

County or island	Square miles		
	Total	Land 2/	Inland water 3/
State total	6,470.8	6,425.2	45.6
Counties: 4/			
Hawaii	4,035.2	4,034.2	1.0
Maui	1,171.0	1,161.6	9.4
Kalawao	14.3	13.3	1.0
Honolulu 5/	620.9	596.7	24.2
Kauai 5/	629.4	619.4	10.0
Islands: 4/			
Hawaii	4,035.2	4,034.2	1.0
Maui 6/	734.5	728.6	5.9
Kahoolawe	45.9	45.0	0.9
Lanai	141.2	140.4	0.8
Molokai	263.7	260.9	2.8
Oahu	617.6	593.6	24.0
Kauai	558.2	549.4	8.8
Niihau 7/	71.1	70.0	1.1
Kaula	0.4	0.4	-
Northwestern Hawaiian Islands 8/	2.910	2.690	0.220
Nihoa	0.238	0.238	-
Necker Island	0.105	0.105	-
French Frigate Shoals	0.081	0.081	-
Gardner Pinnacles	0.011	0.011	-
Maro Reef	Awash	Awash	Awash
Laysan Island	1.454	1.234	0.220
Lisianski Island	0.586	0.586	-
Pearl and Hermes Atoll	0.106	0.106	-
Kure Atoll	0.329	0.329	-

Continued on next page.

Table 157.-- LAND AND WATER AREA OF COUNTIES AND ISLANDS: 1982 -- Con.

County or island	Square kilometers 1/		Acres 1/	
	Total	Land 2/	Total	Land 2/
State total	16,759.3	16,641.2	4,141,312	4,112,128
Counties: 4/				
Hawaii	10,451.1	10,448.5	2,582,528	2,581,888
Maui	3,032.9	3,008.5	749,440	743,424
Kalawao	37.0	34.4	9,152	8,512
Honolulu 5/	1,608.1	1,545.4	397,376	381,888
Kauai 5/	1,630.1	1,604.2	402,816	396,416
Islands: 4/				
Hawaii	10,451.1	10,448.5	2,582,528	2,581,888
Maui 6/	1,902.3	1,887.1	470,080	466,304
Kahoolawe	118.9	116.5	29,376	28,800
Lanai	365.7	363.6	90,368	89,856
Molokai	683.0	675.7	168,768	166,976
Oahu	1,599.6	1,537.4	395,264	379,904
Kauai	1,445.7	1,422.9	357,248	351,616
Niihau 7/	184.1	181.3	45,504	44,800
Kaula	1.0	1.0	256	256
Northwestern Hawaiian Islands 8/	7.5	7.0	1,862	1,722
Nihoa	0.6	0.6	152	152
Necker Island	0.3	0.3	67	67
French Frigate Shoals	0.2	0.2	52	52
Gardner Pinnacles	0.0	0.0	7	7
Maro Reef	Awash	Awash	Awash	Awash
Laysan Island	3.8	3.2	931	790
Lisianski Island	1.5	1.5	375	375
Pearl and Hermes Atoll	0.3	0.3	68	68
Kure Atoll	0.9	0.9	211	211

1/ Areas in square kilometers and acres were calculated directly from the figures shown for square miles; these equivalents were independently rounded, and hence may not add exactly to the indicated totals and subtotals. 1 square mile = 640 acres = 2.58999 square kilometers.

2/ Dry land and land temporarily or partially covered by water, as marshland, swamps, etc.; streams and canals under one-eighth statute mile wide; and lakes, reservoirs, and ponds under 40 acres of area.

Continued on next page.

3/ Permanent inland water surface, such as lakes, reservoirs, and ponds having 40 acres or more of area; streams, sloughs, estuaries, and canals one-eighth statute mile or more in width; deeply indented embayments and sounds, and other coastal waters behind or sheltered by headlands or islands separated by less than 1 nautical mile of water, and islands having less than 40 acres of area.

4/ Because of rounding, island figures may not add to county figures.

5/ Revised to reflect inclusion of Kaula in the City and County of Honolulu rather than in the County of Kauai, as formerly shown; see Hawaii State Department of the Attorney General, "County Jurisdiction Over Kaula," memorandum to Kent M. Keith, August 18, 1986.

6/ Molokini, offshore of Maui, not measured; other sources give the area of Molokini as 18.6 acres (0.03 square miles or 0.075 square kilometers).

7/ Includes Lehua, previously reported as 243 acres (0.38 square miles or 0.98 square kilometers).

8/ Exclusive of the Midway Islands, which are part of the Hawaiian Archipelago but not legally part of the State of Hawaii.

Source: Unpublished data supplied by the Geography Division, U.S. Bureau of the Census, May 5, 1983; cited in the Hawaii State Department of Planning and Economic Development, Remeasurements of the Area of Hawaii, 1982 (Statistical Memorandum 83-6, May 18, 1983).

Table 158.-- LAND AND WATER AREA WITHIN THE FISHERY CONSERVATION ZONE

[Land and water area within the 200 nautical mile Fishery Conservation Zone surrounding the Hawaiian Archipelago]

Category	Square nautical miles	Square statute miles	Square kilo-meters
Total	634,023	839,623	2,174,626
Land area	4,852	6,425	16,641
Water area	629,171	833,198	2,147,985

Source: Charles E. Harrington, Chief Geographer, Marine Surveys and Maps, National Ocean Survey, National Oceanic and Atmospheric Administration, U.S. Department of Commerce, information supplied September 15, 1978.

Table 159.-- MAJOR AND MINOR ISLANDS IN THE HAWAIIAN ARCHIPELAGO

Classification	Number of islands		Land area (square miles)
	Total	Inhabited, 1980 1/	
All named islands	137	15	6,427.0
Major islands	8	7	6,419.4
Named minor islands 2/	129	8	7.6
Offshore of major islands	96	4	2.6
Northwestern Hawaiian Islands 3/	33	4	4.9
Part of State	28	3	2.9
Not part of State (Midway Islands)	5	1	2.0

1/ For populations, see present volume, table 4.

2/ For individual data, see DPED Report GN-6, pp. 3-7.

3/ The 33 islets are in 10 clusters.

Source: Hawaii State Department of Planning and Economic Development, *Geographic Names Approved, Second Quarter 1969* (Report GN-6, July 8, 1969), p. 8; data for Midway Islands supplied by Lee S. Motteler, Bishop Museum.

Table 160.-- AREA AND DEPTH OF SELECTED CRATERS

Island and crater	Area (acres)	Maximum depth (feet)
Hawaii:		
Kilauea Caldera	2,319	476
Mokuaweoweo Crater 1/	2,221	572
Maui:		
Haleakala Crater 2/	12,575	3,028
Oahu:		
Diamond Head Crater	255	562
Koko Crater	133	968
Punchbowl Crater	62	140

1/ Data exclude North and South Pits.

2/ Data exclude Koolau and Kaupo Gaps.

Source: Measured from U.S. Geological Survey maps by Adele M. Carpenter, Land Use Division, DBED.

Table 161.-- ELEVATIONS OF MAJOR SUMMITS

[Elevation of the highest point on each island
and other important peaks]

Island and mountain	Feet	Meters
Hawaii:		
Mauna Kea 1/	13,796	4,205
Mauna Loa 2/	13,679	4,169
Hualalai	8,271	2,521
Kaumu o Kaleihoohie	5,480	1,670
Kilauea (Uwekahuna)	4,093	1,248
Kilauea (Halemaumau Rim)	3,660	1,116
Kahoolawe:		
Puu Moaulanui	1,483	452
Puu Moaulaiki	1,434	437
Molokini	160	49
Maui:		
Haleakala (Red Hill)	10,023	3,055
Haleakala (Kaupo Gap)	8,201	2,500
Puu Kukui	5,788	1,764
Iao Needle	2,250	686
Lanai:		
Lanaihale	3,370	1,027
Molokai:		
Kamakou	4,961	1,512
Olokui	4,606	1,404
Kaunuohua	4,535	1,382
Kalaupapa Lookout	1,600	488
Mauna Loa (Kukui)	1,430	436
Oahu:		
Kaala	4,017	1,224
Puu Kalena	3,504	1,068
Konahuanui	3,150	960
Tantalus	2,013	614
Olomana	1,643	501
Koko Crater (Kohelepelepe)	1,208	368
Nuuanu Pali Lookout	1,186	361
Diamond Head	760	232
Koko Head	642	196
Punchbowl	500	152

Continued on next page.

Table 161.-- ELEVATIONS OF MAJOR SUMMITS -- Con.

Island and mountain	Feet	Meters
Kauai:		
Kawaikini	5,243	1,598
Waialeale	5,148	1,569
Namolokama Mountain	4,421	1,348
Kalalau Lookout	4,120	1,256
Haupu	2,297	700
Sleeping Giant (Nonou)	1,241	378
Niihau:		
Paniau	1,281	390
Lehua	699	213
Kaula	550	168
Nihoa:		
Millers Peak	910	277
Necker Island:		
Summit Hill	277	84
French Frigate Shoals:		
La Perouse Pinnacles	135	41
Gardner Pinnacles	190	58
Maro Reef	Awash	Awash
Laysan Island	35	11
Lisianski Island	20	6
Pearl and Hermes Atoll	10	3
Midway Islands	12	4
Kure Atoll	20	6

1/ According to the 1986 Guinness Book of World Records (p. 94), "The world's tallest mountain measured from its submarine base (3,280 fathoms) in the Hawaiian Trough to peak is Mauna Kea ... with a combined height of 33,476 ft, of which 13,796 ft are above sea level."

2/ Guinness (p. 94) describes Mauna Loa as having "dimensions, but not height, [which] exceed those of Mt Everest .... The axes of its elliptical base, 16,322 ft below sea level, have been estimated at 74 mi and 53 mi."

Source: U.S. National Cartographic Information Center, data provided October 11, 1978; U.S. Geological Survey topographic maps; E. D. Baldwin, 1883 Molokini figure on Hawaiian Government Survey Reg. Map No. 1276; National Geodetic Survey 1969 figure for Kaaīa, provided by U.S. Geological Survey, Honolulu office, July 23, 1984; U.S.S. Tanager survey, 1923 (for Pearl and Hermes Atoll). Data compiled with assistance of Lee S. Motteler, Bernice P. Bishop Museum.

Table 162.-- MAJOR STREAMS, BY ISLANDS

Island	Feature or stream	Length or ave. discharge
Longest water feature (miles):		
Hawaii	Wailuku River	32.0
Maui	Kalialinui-Waiale Gulch	18.0
Kahoolawe	Ahupu Gulch	4.0
Lanai	Maunalei-Waialala Gulch	12.9
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream (So. Fork)	33.0
Kauai	Waimea River-Poomau Stream	19.5
Niihau	Keanaulii-Puniopo Valley	5.9
Largest perennial stream (miles): 1/		
Hawaii	Wailuku River	22.7
Maui	Palikea Stream	7.8
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream	30.0
Kauai	Waimea River	19.7
Streams with greatest average discharge (million gal./day):		
Hawaii	Wailuku River	185
Maui	Iao Stream	50
Molokai	Wailau Stream	30
Oahu	Waikele Stream	25
Kauai	Hanalei River	150

1/ Estimated on basis of drainage area rather than stream runoff.

Other major streams include Wailoa River, Hawaii (1/2-mile long); Honokohau Stream (9.4 miles long) and Iao Stream (5), both on Maui; Halawa Stream (6.4), Waikolu Stream (4.7), and Pelekunu (2.3), all on Molokai; Waikele Stream (15.3), Kipapa Stream (12.8), Waiakakalaua Stream (11.8), Nuuanu Stream (4), and Ala Wai Canal (1.9), all on Oahu; and the Makaweli River (15.1), Wainiha River (13.8), Hanapepe River (13.3), and Wailua River (11.8), all on Kauai.

Source: Longest water feature from U.S. Geological Survey, records; other data from Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 163.-- LAKES AND LAKE-LIKE WATERS, BY ISLANDS: 1987

Island and lake	Type	Elevation (feet)	Area 1/ (acres)	Maximum depth (feet)
Hawaii:				
Aimakapa	Coastal pool .	(SL)	15	(NA)
Green Lake	Lake	3	2	20
Lake Waiau 2/	Lake	13,020	2	10
Waiakea Pond	Tidal pond ...	(SL)	27	7
Maui:				
Kanaha Pond	Marsh	(SL)	41	<3
Kealia Pond	Marsh	(SL)	500	(NA)
Violet Lake	Bog pool	5,020	0.02-1	(NA)
Wai Anapanapa	Pond	6,790	0.2	(NA)
Waieleele	Pond	6,690	0.5	21
Molokai:				
Kauhako	Pool	(SL)	0.9	814
Kualapuu Reservoir ..	Reservoir	821	100	50
Meyer Lake	Impoundment ..	2,021	6-10	5
Oahu:				
Kaelepulu Pond	Lake	(SL)	198	(NA)
Kawainui Marsh	Marsh	(SL)	1,000	(NA)
Salt Lake	Lake	(SL)	49	2
Wahiawa Reservoir ...	Reservoir	842	302	85
Kauai:				
Nomilu Fishpond	Pond	(SL)	20	66
Waita Reservoir	Reservoir	241	424	23
Niihau:				
Halalii Lake	Playa	(SL)	841-865	(NA)
Halulu Lake	Playa	(SL)	182-371	(NA)
Laysan:				
Unnamed closed lagoon	Closed lagoon	(SL)	161	16

NA Not available.

SL Sea level.

1/ Ranges shown for Violet Lake, Meyer Lake, Halalii Lake, and Halulu Lake reflect differences in estimates between sources.

2/ Highest lake in the State and third highest in the United States.

Continued on next page.

Table 163.-- LAKES AND LAKE-LIKE WATERS, BY ISLANDS: 1987 - Con.

Source: J.A. Maciolek, Lakes and Lake-like Waters of the Hawaiian Archipelago (Bernice P. Bishop Museum, Occasional Papers, Vol. XXV, No. 1, April 30, 1982; Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, data provided May 29, 1987; Hawaii State Department of Planning and Economic Development, Resource Management Plan for Kawainui Marsh (March 1983); William H. Meyer, U.S. Fish and Wildlife Service, transmittal letter (to DPED, Coastal Zone Management Program), for Kealia Pond National Wildlife Refuge, Maui, Hawaii, Final EIS (EIS No. 116, August 1981).

Table 164.-- MAJOR NAMED WATERFALLS, BY ISLANDS

Island	Waterfall	Height (feet)		Horizontal distance (feet)
		Sheer drop	Cascade	
Hawaii	Kaluahine	...	620	400
	Akaka	442	...	...
Maui	Honokohau	...	1,120	500
Molokai	Kahiwa	...	1,750	1,000
	Papalaua	...	1,200	500
Oahu	Kaliuwaa (Sacred) 1/	80	1,520	3,000
Kauai	Waipoo (2 falls)	...	800	600
	Awini	...	480	500

1/ Sheer drop refers to northernmost fall of a cascade of six falls.

Source: U.S. Geological Survey, records; Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 165.-- MISCELLANEOUS GEOGRAPHIC STATISTICS, BY ISLANDS

Island	Extreme length (miles)	Extreme width (miles)	Miles of sea cliffs with heights 1,000 ft. or more 1/	Miles from coast of most remote point	Percent of area within 5 miles of coast
The State ..	...	...	33	28.5	48.6
Hawaii	93	76	4	28.5	30.0
Maui	48	26	-	10.6	76.1
Kahoolawe	11	6	-	2.4	100.0
Lanai	18	13	1	5.2	100.0
Molokai	38	10	14	3.9	100.0
Oahu	44	30	-	10.6	79.0
Kauai	33	25	11	10.8	67.0
Niihau	18	6	3	2.4	100.0

Island	Percent of area with elevation --		Approximate mean altitude (feet)	Percent of area with slope --	
	Less than 500 feet	2,000 feet or more		Less than 10 percent	20 percent or more
The State ..	20.8	50.9	3,030	63.5	17.0
Hawaii	12.0	68.4	3,950	76.0	4.0
Maui	24.9	41.4	2,390	38.5	36.0
Kahoolawe	38.9	0	600	60.0	9.0
Lanai	24.8	6.3	1,140	61.0	16.0
Molokai	37.3	17.8	1,150	53.0	26.0
Oahu	45.3	4.6	860	42.5	45.5
Kauai	35.6	24.0	1,380	33.5	50.5
Niihau	78.2	0	530	68.0	12.5

1/ According to Lee S. Motteler, Geography and Map Division, Bernice P. Bishop Museum, the sea cliffs along the northeastern coast of Molokai between Umilehi Point and Puukaoku Point drop 3,250 feet at an average slope of 58 degrees. These cliffs have been described by the Guinness Book of World Records (1986 edition, p. 99) as "the highest sea cliffs yet pinpointed anywhere in the world."

Source: Hawaii State Department of Planning and Economic Development, Hawai'i, the Natural Environment (1974), p. 19; U.S. Geological Survey, Elevations and Distances in the United States (1978), pp. 4-5.

Table 166.-- VOLCANIC ERUPTIONS: 1969 TO 1987

[Complete through July 14, 1987. Four volcanoes have erupted in historical times: Haleakala, last active around 1790; Hualalai, last active in 1800-1801; and Kilauea and Mauna Loa, both active during the past decade and included in this table]

Volcano and date of outbreak	Repose period since previous eruption (months)	Duration (days)	Location 1/	Elevation (feet)	Area (square miles)	Volume (1,000 cubic yards)
Mauna Loa:						
1975: July 5	301	<1	S	13,000	5.2	35,000
1984: March 25	104	22	S, ER	13,200-9,400	11±	230,000
Kilauea:						
1969: Feb. 22	4.0	6	ER	3,100-2,900	2.3	22,000
May 24	2.0	867	ER	3,150	19.3	242,000
1971: Aug. 14	-	<1	C	3,660-3,600	0.8	12,400
Sept. 24	-	5	C, SWR	3,740-2,730	1.5	10,500
1972: Feb. 4	4.3	455	ER	3,150	13.5	163,800
1973: May 5	-	<1	ER	3,340-3,250	0.1	1,600
Nov. 10	-	30	ER	3,250-2,900	0.4	3,700
Dec. 12	0.1	203	ER	3,150	3.1	39,300
1974: July 19	-	3	C, ER	3,600-3,520	1.2	9,000
Sept. 19	2.0	<1	C	3,680	0.4	14,000
Dec. 31	3.4	<1	C	3,600	2.9	19,600
1975: Nov. 29	11.0	<1	C	3,600-3,520	0.1	300
1977: Sept. 13	21.5	18	ER	2,080-1,600	3.0	45,000
1979: Nov. 16	26.3	1	ER	3,270-3,200	0.1	800
1982: April 30	29.5	<1	C	3,630	0.1	260
Sept. 25	4.9	<1	C	3,620	0.3	3,900
1983: Jan. 3 2/	3.3	1,652	ER	2,560-2,120	19.3	965,000

1/ C, caldera; ER, east rift; S, summit; SWR, southwest rift.

2/ Still in progress, July 14, 1987. As of that time, there had been 48 separate episodes.

Source: Gordon A. Macdonald and Douglass H. Hubbard, Volcanoes of the National Parks in Hawaii, 8th edition (Hawaii Natural History Association, 1982), pp. 10, 19, 34, and 58, as updated by the staff of the Hawaiian Volcano Observatory, July 14, 1987.

Table 167.-- EARTHQUAKES OF MAGNITUDE 5 OR GREATER: 1957 TO 1987

[Complete to July 30, 1987]

Date and time	Location	Magnitude (Richter Scale)
1957: Aug. 18	E. of Hana, Maui	5.6
1961: Sept. 25	Hawaii	5.75-6
1962: June 27	Hawaii	6.1
June 28	Hawaii	5.75
1963: Oct. 23	Hawaii	5.4
1964: Oct. 11	W. of S. Kona	5.3
Dec. 10	Hawaii	5
1969: May 9	Hawaii	5
1971: Aug. 1	S.E. of Hawaii	4.5-5
1972: Dec. 23	W. of Kona	5
1973: Apr. 26	Hawaii	6.2
Oct. 9	Hawaii	4.8-5
1974: Nov. 30	Hawaii	5.5-6
1975: Jan. 2, 3:27 AM	Near Pahala, Hawaii	5.0
Nov. 29, 3:35 AM	Puna, Hawaii	5.7
Nov. 29, 4:47 AM	Puna, Hawaii	7.2
1976: Feb. 20, 7:51 PM	Between Maui and Hawaii	5.1
1977: Jan. 22, 12:36 PM	100 miles S. of Kauai	5.1
Apr. 20, 6:49 PM	Hamakua, Hawaii	5.0
Jun. 5, 11:42 PM	Puna, Hawaii	5.1
1979: Mar. 29, 11:06 PM	40 miles S.W. of Oahu	5.5
Sept. 21, 9:59 PM	Puna, Hawaii	5.5
1981: Mar. 5, 4:09 AM	Molokai area	5.3
Nov. 10, 3:02 AM	Kilauea, Hawaii	5.3
1982: Jan. 21, 11:52 AM	Mauna Loa, Hawaii	5.5
Jan. 21, 12:29 PM	Mauna Loa, Hawaii	5.5
May 14, 6:26 AM	Off Kawaihae, Hawaii	5.0
1983: Mar. 20, 5:18 PM	Off Kalapana, Hawaii	5.0
Sept. 9, 6:30 AM	Off Kalapana, Hawaii	5.4
Nov. 16, 6:13 AM	S.E. flank of Mauna Loa	6.7
1984: Jun. 8, 5:34 PM	80 miles S. of Honolulu	5.3
1986: Apr. 26, 7:19 AM	28 miles N.E. of Maui	5.1
1987: Feb. 3, 4:22 PM	26 miles S. of Kahoolawe	5.0

Source: Augustine S. Furumoto, N. Norby Nielsen, and William R. Phillips, A Study of Past Earthquakes, Isoseismic Zones of Intensity and Recommended Zones for Structural Design for Hawaii (University of Hawaii, Center for Engineering Research, June 15, 1972), pp. 16-19. Hawaii Institute of Geophysics, records; Hawaii Volcano Observatory Summaries; U.S. Geological Survey, National Earthquake Information Service. Data provided by Professor Augustine S. Furumoto, Hawaii Institute of Geophysics, University of Hawaii, July 31, 1987.

Table 168.-- EARTHQUAKES WITH HONOLULU INTENSITIES OF V OR GREATER: 1859 TO 1983

[Based on data for 113 earthquakes observed in Honolulu, from 1859 through 1983]

Date	Epicentral location	Magnitude (Richter scale)	Honolulu average intensity (Modified Mercalli Scale 1/)
1861: Dec. 5 ..	Molokai-Lanai vic. (?) .	(NA)	Mid V
Dec. 15 .	Molokai-Lanai vic. (?) .	(NA)	Lower V
1868: Apr. 2 ..	SE coast of Hawaii	7.5	Upper IV - lower V
Apr. 4 ..	Maui group vicinity (?)	(NA)	Lower V
1871: Feb. 19 .	S coast of Lanai	7.0	Upper VI - lower VII
1895: Dec. 8 ..	Oahu vicinity (?)	(NA)	Mid V
1926: Mar. 19 .	N of Kohala, Hawaii	(NA)	Upper IV - lower V
1929: Oct. 5 ..	W of Kona, Hawaii	6.5	Lower V
1938: Jan. 22 .	N of Maui	6.8	Upper V - lower VI
1948: June 28 .	S coast of Oahu	4.8	Mid VI
1964: Oct. 11 .	Ka Lae, Hawaii	5.5	Upper IV - lower V
1973: Apr. 26 .	Hamakua coast, Hawaii ..	6.2	Mid V
1981: Mar. 5 ..	Kalohi Channel	5.0	Mid V

NA Not available.

1/ Modified Mercalli Scale of 1931, 1956 abridged version. This scale, which extends from I to XII, reads in part:

IV. Hanging objects swing. Vibration like passing of heavy trucks; or sensation of a jolt like a heavy ball striking the walls. Standing motor cars rock. Windows, dishes, doors rattle. Glasses clink. Crockery clashes. In the upper range of IV wooden walls and frame creak.

V. Felt outdoors; direction estimated. Sleepers wakened. Liquids disturbed, some spilled. Small unstable objects displaced or upset. Doors swing, close, open. Shutters, pictures move. Pendulum clocks stop, start, change rate.

VI. Felt by all. Many frightened and run outdoors. Persons walk unsteadily. Windows, dishes, glassware broken. Knickknacks, books, etc., off shelves. Pictures off walls. Furniture moved or overturned. Weak plaster and masonry cracked. Small bells ring (church, school). Trees, bushes shaken (visibly, or heard to rustle).

VII. Difficult to stand. Noticed by drivers of motor cars. Hanging objects quiver. Furniture broken. Damage to weak masonry, including cracks. Weak chimneys broken at roof line. Fall of plaster, loose bricks, stones, tiles cornices. Some cracks in ordinary masonry. Waves on ponds; water turbid with mud. Small slides and caving in along sand or gravel banks. Large bells ring. Concrete irrigation ditches damaged.

Source: Doak C. Cox, "Earthquake Experience and Seismic Risk in Honolulu" (paper presented to the Hawaiian Historical Society, Honolulu, March 6, 1986), and letter dated June 23, 1986.

Table 169.-- TSUNAMIS WITH RUN-UP OF 2 METERS (6.6 FEET) OR MORE: 1946 TO 1987

[Correct to August 20, 1987]

Date	Maximum height in Hawaii		Deaths in Hawaii	Damage in Hawaii (dollars)
	Meters	Feet		
1946: April 1	17.0	55.8	159	26,000,000
1952: Nov. 4	6.1	20.0	-	1,000,000
1957: March 9	16.0	52.5	-	5,000,000
1960: May 22	10.5	34.5	61	23,000,000
1964: March 27	4.8	15.7	-	67,590
1975: Nov. 29	14.6	48.0	2	1,500,000

Source: George Pararas-Carayannis, Catalog of Tsunamis in the Hawaiian Islands (U.S. Coast and Geodetic Survey, May 1969); Harold G. Loomis, The Tsunami of November 29, 1975 in Hawaii (Hawaii Institute of Geophysics, December 1975), pp. 1 and 10; D.C. Cox and J. Morgan, Local Tsunamis and Possible Local Tsunamis in Hawaii (Hawaii Institute of Geophysics, Report HIG 77-14, November 1977); Doak C. Cox, Tsunami Casualties and Mortality in Hawaii (University of Hawaii, Environmental Center, June 1987), p. 39; Hawaii Institute of Geophysics, records.

Table 170.-- MAJOR DAMS: 1987

Name	Location	Height (ft.)	Length (ft.)	Volume of water impounded (acre ft.)
Wahiawa Dam ...	Wahiawa, Oahu	98	460	7,671
Waita	Koloa, Kauai	28	3,250	6,500
Kualapuu	Kualapuu, Molokai .	58	7,100	4,265
Alexander Dam .	Kalaheo, Kauai	119	600	2,500
Nuuanu No. 4 ..	Honolulu, Oahu	73	1,730	1,420

Source: Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 171.-- WATER USE, BY TYPE, BY ISLANDS: 1985

[Million gallons per day]

Use	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai	Niihau
Total	1,405.14	165.80	471.96	2.99	12.76	401.56	349.53	0.54
Ground water	649.43	72.89	149.72	2.99	5.31	358.14	59.84	0.54
Domestic	182.81	15.71	14.09	0.41	1.32	140.53	10.48	0.27
Agricultural ..	333.35	0.30	135.04	2.58	3.99	144.62	46.55	0.27
Industrial	16.19	5.26	0.59	-	-	10.03	0.31	-
Thermoelectric	86.04	51.62	-	-	-	34.42	-	-
Commercial	31.04	-	-	-	-	28.54	2.50	-
Surface water ...	755.71	92.91	322.24	-	7.45	43.42	289.69	-
Domestic	16.96	9.00	7.56	-	0.07	-	0.33	-
Agricultural ..	567.86	46.12	310.26	-	7.38	43.42	160.68	-
Industrial	2.70	-	-	-	-	-	2.70	-
Thermoelectric	3.80	-	-	-	-	-	3.80	-
Hydroelectric .	164.39	37.79	4.42	-	-	-	122.18	-

Source: Data compiled by the U.S. Geological Survey and provided by the Hawaii State Department of Land and Natural Resources, Division of Water and Land Development.

Table 172.-- WATER SERVICES AND CONSUMPTION, FOR COUNTY WATERWORKS: 1982 TO 1986

Subject and geographic area	1982	1983	1984	1985	1986
NUMBER OF SERVICES, JUNE 30					
State total	179,648	181,980	185,044	188,271	192,261
City and County of Honolulu	126,400	127,540	129,080	130,884	132,775
Honolulu 1/	58,159	58,173	58,462	58,801	59,237
Rest of Oāhu	68,241	69,367	70,618	72,083	73,538
Hawaii County	23,682	24,218	24,834	25,315	26,031
Kauai County	10,823	11,049	11,501	11,872	12,360
Maui County	18,743	19,173	19,629	20,200	21,095
Maui	17,607	18,007	18,413	18,964	19,807
Molokai	1,136	1,166	1,216	1,236	1,288
CONSUMPTION 2/ (MILLION GALLONS)					
State total	56,719	59,724	63,670	65,298	61,432
City and County of Honolulu	42,646	44,535	47,389	48,308	44,125
Honolulu 1/	24,317	25,658	26,636	27,218	24,454
Rest of Oāhu	18,329	18,877	20,753	21,090	19,671
Hawaii County	4,753	5,066	5,409	5,666	6,039
Kauai County	2,805	3,240	3,492	3,531	3,667
Maui County	6,515	6,883	7,380	7,793	7,601
Maui	6,235	6,592	7,073	7,493	7,314
Molokai	280	292	307	300	287

1/ Maunalua to Moanalua.

2/ Year ended June 30.

Source: Data compiled by Hawaii State Department of Planning and Economic Development from Honolulu Board of Water Supply, Hawaii County Department of Water Supply, Kauai Department of Water, and Maui Department of Water Supply.

Table 173.-- POLLUTION ABATEMENT COSTS AND EXPENDITURES: 1984 AND 1985

[Millions of dollars. Statistics cover manufacturing establishments with 20 employees or more]

Subject	1984	1985
Total pollution abatement capital expenditures .	6.8	4.9
Gross annual cost of pollution abatement	10.8	13.3
Payments to government units	0.8	0.6
Operating costs, total	10.0	12.6
Cost recovered through abatement activities	0.6	0.4
Operating costs by form of pollutants abated:		
Air	2.3	3.7
Water	5.1	5.3
Solid waste, hazardous	0.3	0.2
Solid waste, non-hazardous	2.3	3.4
Operating costs by kind of cost:		
Depreciation	1.6	2.0
Labor	2.4	2.9
Materials and supplies	3.3	4.1
Services, equipment leasing, and other costs .	2.7	3.6

Source: U.S. Bureau of the Census, "Pollution Abatement Costs and Expenditures, 1984," Current Industrial Reports, MA-200(84)-1 (May 1986), pp. 16, 34, and 49; "Pollution Abatement Costs and Expenditures, 1985," Current Industrial Reports, MA-200(85)-1 (April 1987), pp. 18, 37, and 52.

Table 174.-- WATER QUALITY AT SPECIFIED PUBLIC BEACHES: 1983 TO 1986

Island and beach	Number of samples, 1986	Fecal coliform density 1/ (geometric mean, MPN/100 ml)			
		1983	1984	1985	1986
Hawaii (Hilo Shoreline Area):					
Exit of Ice Pond	10	27.5	15.6	78.2	15.1
Leileiwi Beach Park	9	121.1	109.7	182.1	116.0
Onekahakaha	9	6.4	5.6	8.8	7.4
Puhi Bay No. 3	11	12.6	12.9	286.1	48.8
Hawaii (Kona Shoreline Area):					
Hapuna Beach	7	15.2	5.3	3.9	3.6
Kahaluu Beach	7	6.4	2.6	2.8	2.8
Kealakekua Bay (curio stand)	8	3.9	3.3	4.6	3.9
Kealakekua Bay (canoe landing)	8	4.4	4.4	3.9	4.7
Magic Sands Beach	7	3.4	5.4	4.7	2.3
Puako Beach Lots (middle)	7	21.4	9.5	11.6	4.5
Puako Beach Lots (south end)	7	21.2	46.2	20.6	14.1
Spencer Beach Park	7	4.7	9.8	6.7	7.6
Maui:					
Hukilau Hotel shoreline	7	3.3	3.0	7.4	3.7
Oahu:					
Ala Moana Park (ewa end)	20	6.8	5.7	6.7	3.6
Ala Moana Park (center)	11	2.0	2.7	3.3	2.5
Ala Moana Park (diamond head)	11	6.2	3.1	7.9	3.8
Elks Club Beach	9	4.0	5.4	6.2	2.3
Ewa Beach	7	4.4	4.8	5.1	5.7
Ft. DeRussy Beach	9	5.6	6.8	5.0	4.6
Gray's Beach	17	5.7	5.4	7.3	6.2
Hanauma Bay	9	6.8	9.5	17.7	5.4
Kahana Park Beach	9	24.0	58.2	54.1	23.1
Kahanamoku Beach	10	3.4	2.4	3.7	3.2
Kahanamoku Lagoon (diamond head)	17	23.3	16.8	77.0	12.1
Kailua Bay outfall shoreline	9	2.0	3.8	2.8	3.2
Kailua Beach Park	9	3.1	2.5	5.0	3.9
Kokokahi Pier	9	29.8	12.1	114.5	40.6
Kuhio Beach	9	9.7	8.4	22.5	7.8
Public Bath Beach	17	2.5	3.3	4.8	4.0
Tavern Beach	9	4.4	6.1	9.1	4.6
Sand Island, Pt. No. 3	10	2.9	2.3	4.2	2.1

Continued on next page.

Table 174.-- WATER QUALITY AT SPECIFIED PUBLIC BEACHES: 1983 TO 1986 - Con.

Island and beach	Number of samples, 1986	Fecal coliform density 1/ (geometric mean, MPN/100 ml)			
		1983	1984	1985	1986
Kauai:					
Brennecke Beach	2	4.1	2.5	2.0	2.0
Hanalei Bay Landing	3	86.0	42.8	51.2	76.9
Poipu Beach	2	2.0	4.4	2.0	2.0

MPN Most probable number.

1/ The geometric mean standard for fecal coliform density is 200 MPN per 100 ml.

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, data supplied April 29, 1987.

Table 175.-- LITTER ALONG OAHU HIGHWAYS: 1978 TO 1985

Measure	1978	1979	1981	1985
Visible litter items per mile:				
35 sites	2,128	1,369	1,471	1,110
52 sites 1/	2,135	1,452	1,576	1,261
Visible beer/soft drink containers per mile:				
35 sites	367	187	93	60
52 sites 1/	292	148	71	51
Indiscriminate dumps per 1,000 miles of driving	(NA)	8.2	15.7	19.6
Abandoned vehicles per 1,000 miles of driving	(NA)	4.9	23.6	57.4

NA Not available.

1/ 1978 and 1979 estimated.

Source: Daniel B. Syrek, Hawaii Litter: 1985 (Sacramento: The Institute for Applied Research, for the Hawaii State Department of Health, Litter Control Office, May 23, 1985).

Table 176.-- REFUSE AND SEWAGE STATISTICS FOR OAHU: 1980 TO 1986

[Fiscal years]

Year	Tons of refuse delivered 1/			Sewage treated 2/ (millions of gallons)
	Total	City and County refuse vehicles	Other vehicles	
1980	686,438	221,774	464,664	36,885
1981	708,164	258,600	449,634	35,945
1982	669,120	244,826	424,294	34,830
1983	645,889	244,812	401,077	37,395
1984	707,473	235,767	471,706	38,283
1985	655,790	216,685	439,105	37,817
1986	729,611	252,081	477,530	37,608

Year	Sewage pumped 2/ (millions of gallons)	Miles of sewers 2/	City and County pump stations	City and County treatment plants
1980	45,165	1,592	47	19
1981	43,744	1,623	48	19
1982	44,687	1,646	50	21
1983	48,442	1,670	52	20
1984	48,320	1,691	51	18
1985	49,361	1,711	51	17
1986	48,559	1,736	55	17

1/ Excludes small landfill controlled by armed forces.

2/ Data limited to system maintained by the City and County of Honolulu Public Works Department.

Source: City and County of Honolulu, Departmental and Agency Reports (annual), and City Refuse Division, records.

Table 177.-- AIR QUALITY IN DOWNTOWN HONOLULU: 1976 TO 1986

[Sampling is conducted approximately 46 ft. above ground on the roof of the State Health Department building, 1250 Punchbowl Street, Honolulu, Hawaii]

Year	Annual arithmetic means (ug/m^3)	
	Total suspended particulates	Sulfur oxides
1976	34	23
1977	31	17
1978	29	18
1979	32	22
1980	37	18
1981	40	19
1982	29	11
1983	26	<5
1984	25	<5
1985	24	<5
1986	25	<5
Standards: 1/		
Primary	75	80
Secondary	60	...

1/ Primary and secondary national ambient air quality standards have been promulgated by the Federal government. Primary standards are designed to prevent adverse effects on public health, while secondary standards are designed to prevent adverse effects on public welfare, including the effects on comfort, visibility, vegetation, animals, aesthetic values, and soiling and deterioration of materials.

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, data supplied April 29, 1987.

Table 178.-- AIR QUALITY AT SPECIFIED LOCATIONS: 1986

[24-hour sampling, in micrograms per cubic meter]

Sampling station	Total suspended particulates			Sulfur dioxide		
	Annual range		Arith-metic average	Annual range		Arith-metic average
	Minimum	Maximum		Minimum	Maximum	
Oahu:						
Barbers Point 1/	7	66	26	<5	10	<5
Downtown Honolulu	11	61	25	<5	6	<5
Liliha	17	60	32	...	...	...
Pearl City	17	65	30	...	...	...
Waimanalo	10	72	28	...	...	...
Maui:						
Kihei 2/	32	167	61	...	...	...
Hawaii:						
Kona 3/	4	28	16	<5	12	<5
Kauai:						
Lihue 1/	11	42	20	...	...	...

1/ Particulate data from PM_{10} samplers (measuring inhalable particulates of less than 10μ).

2/ Site re-established in September 1986. Data based on four months of sampling.

3/ Site discontinued in September 1986. Data based on eight months of sampling.

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, data supplied April 29, 1987.

Table 179.-- SOURCES OF AIR POLLUTANT EMISSIONS, BY COUNTIES: 1980

[Percent distributions for the sums of weights of sulfur oxides, particulate matter, carbon monoxide, hydrocarbons, and nitrogen oxide emissions]

Source	State total	Hawaii	Honolulu	Kauai	Maui
All sources	100.0	100.0	100.0	100.0	100.0
Transportation	43.0	38.1	47.4	40.6	35.8
Motor vehicles	40.1	36.2	43.9	35.7	33.1
Aircraft	2.3	1.1	2.9	2.3	1.6
Vessels	0.6	0.8	0.6	2.6	1.1
Fuel combustion in stationary sources	29.7	34.9	26.7	32.2	35.3
Steam electric	23.1	19.8	24.6	18.5	22.4
Gas utilities	0.1	(N)	0.1	(N)	(N)
Agricultural fuel	6.5	15.1	2.0	13.7	12.9
Industrial process losses ..	14.6	7.7	20.3	3.2	3.5
Refinery	4.8	(N)	6.5	(N)	(N)
Petroleum storage	0.7	1.1	0.8	(N)	0.5
Metalurgical	0.1	(N)	0.1	(N)	(N)
Mineral products	6.9	3.9	10.8	0.9	1.1
Off-highway const., farms and industries	2.1	2.7	2.1	2.3	1.9
Municipal incinerator	0.9	(N)	1.3	(N)	(N)
Agricultural burning	11.7	19.3	4.3	24.2	25.4

N Less than 0.05 percent.

Source: Hawaii State Department of Health, Environmental Permits Branch, information provided April 30, 1987.

Table 180.-- NOISE LEVELS DURING DAYLIGHT HOURS IN SPECIFIED NEIGHBORHOODS ON OAHU: 1981-1982

Neighborhood	Noise levels (in decibels) exceeded --					
	Manual sampling			Automatic sampling		
	10 percent of time	50 percent of time	90 percent of time	10 percent of time	50 percent of time	90 percent of time
Aina Haina	45.6	42.1	39.5	53.5	46.2	43.2
Aina Koa	48.1	43.1	40.1	52.9	45.8	42.5
Downtown	57	55	54	60	57	55
Hawaii Kai	46.5	41.6	38.9	53.5	46.9	42.9
Kahala	48.0	44.5	42.4	-	-	-
Kaimuki	51.8	44.6	41.7	57.2	47.6	43.3
Kalihi	53.5	49.6	47.4	-	-	-
Kapahulu	47.2	45.0	42.0	-	-	-
Kapalama-Liliha	46.4	45.1	42.5	-	-	-
Kuliouou	48.6	45.9	43.4	52.5	47.9	45.4
Liliha	46	45	43	-	-	-
Makiki	52.7	46.9	45.3	56.5	50.5	48.6
Manoa	45.4	42.6	40.7	51.5	46.0	43.4
Moiliili	53.7	50.2	46.9	60.0	53.4	48.9
Nuuanu	46.6	43.6	40.8	-	-	-
Palolo	49.3	44.6	41.6	65.0	52.4	45.4
Pawaa	59.8	57.1	55.2	60.8	57.1	54.7
Salt Lake	56	52	49	-	56	51
Waikiki	57.8	55.4	54.1	61.6	57.5	55.3
Waialae Iki ...	46.4	43.1	40.6	54.6	44.8	41.7
Aiea	58	54	52	59	56	54
Halawa	52	46	44	55	50	47
Hauula	53	48	45	56	51	47
Kailua	49.2	45.5	42.9	54.9	49.6	45.2
Kaneohe	43.8	40.9	38.9	49.7	43.5	40.9
Mililani	44	37	34	53	46	41
Nanakuli	54	50	47	58	52	48
Pearl City	51	47	45	55	50	48
Wahiawa	47.1	44.7	42.4	51.8	47.3	43.9
Waimanalo	53	50	48	55	51	49
Waipahu	54.1	50.5	47.4	58.8	53.6	50.4

Source: Hawaii State Department of Health, Environmental Protection and Health Services Division, Noise and Radiation Branch, records.

Table 181.-- TEMPERATURES AND PRECIPITATION FOR SELECTED PLACES

Island and station	Ground elevation (feet)	Average temperature (°F.)		Extreme temperature of record (°F.)		Average annual precipitation (inches)
		Coolest month	Warmest month	Lowest	Highest	
Hawaii:						
Hilo Airport	30	71.1	75.8	53	94	129
Hawaii Volcanoes Nat. Park Hdq.	3,970	57.6	63.2	37	85	101
Naalehu	675	70.2	75.2	(NA)	(NA)	47
Kailua	30	72.1	77.3	54	93	25
Puako 1/	5	73.1	79.8	52	98	10
Waimea (Kamuela)	2,670	61.3	66.8	34	90	31
Honokaa	1,070	67.6	75.5	(NA)	(NA)	86
Mauna Kea summit 2/	13,796	31.3	42.5	11	66	20
Maui:						
Hana	120	71.3	76.8	50	90	69
Haleakala summit	10,025	42.6	50.0	14	73	44
Kihei 3/	85	70.9	78.4	49	98	13
Kahuluī Airport	40	71.5	79.2	48	96	19
Lahaina	45	71.5	78.0	52	93	15
Molokai:						
Kaunakakai	10	(NA)	(NA)	(NA)	(NA)	14
Molokai Airport	450	70.2	77.6	48	90	27
Lanai:						
Lanai City	1,620	65.8	72.8	46	88	37
Oahu:						
Honolulu International Airport	10	72.6	81.0	53	94	23
Waikiki (Honolulu Zoo)	10	71.9	80.6	51	93	25
Manoa (Lyon Arboretum)	500	69.4	75.2	(NA)	(NA)	158
Kaneohe MCAS	10	72.9	79.1	58	90	40

Continued on next page.

Table 181.-- TEMPERATURES AND PRECIPITATION FOR SELECTED PLACES -- Con.

Island and station	Ground elevation (feet)	Average temperature (°F.)		Extreme temperature of record (°F.)		Average annual precipitation (inches)
		Coolest month	Warmest month	Lowest	Highest	
Oahu (con.):						
Kahuku	25	71.6	78.8	49	95	40
Wheeler AFB	845	68.2	75.5	52	89	40
Waianae	10	72.1	79.7	45	96	20
Kauai:						
Kilauea (town)	315	68.7	75.6	49	94	68
Lihue Airport	100	71.2	79.1	50	90	44
Poipu (Makahuena Pt.)	50	72.4	79.4	50	93	35
Kokee (Kanalohuluhulu)	3,600	54.9	65.5	31	83	70
Waialeale	5,075	(NA)	(NA)	(NA)	(NA)	444
Northwestern Hawaiian Islands:						
Midway	10	65.0	78.6	52	89	44

NA Not available.
1/ Temperature data are for Mahukona.
2/ Based on incomplete and non-continuous data for 1966-1972. Precipitation estimated.
3/ Temperature data refer to Puunene Airport.
Source: Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, data supplied September 2, 1987.

Table 182.-- CLIMATIC NORMALS, MEANS, AND EXTREMES FOR HILO, KAHULUI, HONOLULU, AND LIHUE AIRPORTS

Subject	Hilo	Kahului	Honolulu	Lihue
Normal temperatures (°F.):				
Daily maximum	81.2	83.8	84.2	81.1
Daily minimum	65.9	67.2	69.7	69.3
Monthly: Coolest month	71.1	71.5	72.6	71.2
Warmest month	75.8	79.2	81.0	79.1
Annual	73.5	75.5	77.0	75.2
Extreme temperatures (°F.):				
Record highest	94	96	94	90
Record lowest	53	48	53	50
Normal degree days, base 65°F.:				
Heating	-	-	-	-
Cooling	3,134	3,851	4,389	3,758
Precipitation (inches):				
Normal	128.15	19.85	23.47	44.02
Maximum monthly	50.82	14.46	20.79	22.91
Minimum monthly	0.28	0.00	T	T
Relative humidity (percent):				
8 A.M.	80	75	72	78
2 P.M.	68	57	56	66
Wind speed (m.p.h.):				
Mean	7.1	12.8	11.5	12.0
Fastest observation, 1 minute 1/	35	44	46	65
Percent of possible sunshine	41	68	68	56
Mean number of days:				
Clear	35.9	130.5	87.5	53.7
Partly cloudy	128.8	144.3	179.3	179.8
Cloudy	200.6	90.5	98.4	131.8
Precipitation .01 inch or more	278.3	97.4	99.8	200.9

T Trace amount.

1/ Kahului figure refers to fastest mile.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, Local Climatological Data, Annual Summary with Comparative Data, 1986 for Hilo, Kahului, Honolulu, and Lihue.

Table 183.-- MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT

Month	Normal temperature (°F)			Extreme temperature (°F)		Precipitation (inches)			
	Daily maximum	Daily minimum	Monthly	Record highest	Record lowest	Normal total	Maximum monthly	Minimum monthly	Maximum in 24 hours
January ...	79.9	65.3	72.6	87	53	3.79	14.74	0.18	6.72
February ..	80.4	65.3	72.8	88	53	2.72	13.68	0.06	6.88
March	81.4	67.3	74.3	88	55	3.48	20.79	0.01	17.07
April	82.7	68.7	75.7	89	57	1.49	8.92	0.01	4.21
May	84.8	70.2	77.5	90	60	1.21	7.23	0.05	3.44
June	86.2	71.9	79.1	91	65	0.49	2.46	T	2.28
July	87.1	73.1	80.1	92	67	0.54	2.01	0.03	1.38
August	88.3	73.6	81.0	93	67	0.60	3.08	T	2.35
September .	88.2	72.9	80.6	94	66	0.62	2.74	0.05	1.40
October ...	86.7	72.2	79.5	94	64	1.88	11.15	0.11	7.57
November ..	83.9	69.2	76.6	93	58	3.22	14.72	0.03	9.15
December ..	81.4	66.5	74.0	89	54	3.43	12.09	0.06	8.14
Annual	84.2	69.7	77.0	94	53	23.47	20.79	T	17.07

Continued on next page.

Table 183.-- MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT -- Con.

Month	Relative humidity (percent)		Wind (miles/hour)		Percent of possible sun-shine	Mean sky cover, sunrise to sun-set 2/	Mean number of days		
							Sunrise to sunset		Precip. .01 inch or more
	8 A.M.	2 P.M.	Mean speed	Fastest obs. 1/			Clear	Cloudy	
Jan. ...	82	62	9.7	32	62	5.4	9.4	8.8	9.9
Feb. ...	78	59	10.4	30	64	5.6	7.5	8.1	9.3
Mar. ...	73	58	11.6	30	68	5.9	7.2	9.7	9.1
Apr. ...	70	56	12.1	31	67	6.2	5.4	10.6	9.2
May	67	54	12.0	30	69	6.0	6.3	9.5	7.2
June ...	67	53	12.8	26	70	5.7	5.7	6.9	5.9
July ...	68	52	13.4	28	73	5.3	7.5	5.4	7.5
Aug	69	53	13.1	28	75	5.3	7.8	6.4	6.4
Sept. ..	68	52	11.4	26	75	5.3	7.9	6.0	7.1
Oct. ...	69	55	10.7	25	68	5.6	7.4	8.4	8.9
Nov. ...	75	59	10.8	46	61	5.7	7.0	9.3	9.3
Dec. ...	79	61	10.6	29	59	5.5	8.4	9.2	9.9
Ann. ...	72	56	11.5	46	68	5.6	87.5	98.4	99.8

T Trace amount.

1/ Fastest observation, 1 minute, during 6-year period of record.

2/ Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, Local Climatological Data, Annual Summary With Comparative Data, Honolulu, 1986.

Table 184.-- CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT: ANNUALLY, 1976 TO 1986

Year	Average temperature (°F)			Extreme temp. (°F)		Precipitation (inches)
	Annual	Coolest month	Warmest month	Lowest	Highest	
1976 ...	76.8	72.0	80.8	53	91	12.90
1977 ...	78.2	73.7	82.2	59	92	12.36
1978 ...	76.8	72.4	80.5	57	91	25.05
1979 ...	77.0	69.9	81.1	57	93	16.93
1980 ...	77.5	71.9	81.6	56	91	26.90
1981 ...	77.1	73.2	80.7	53	90	13.41
1982 ...	76.9	71.7	81.4	56	92	34.92
1983 ...	77.2	71.3	82.4	53	92	5.03
1984 ...	78.1	74.1	81.7	57	94	17.08
1985 ...	76.9	71.4	81.9	54	93	17.38
1986 ...	78.3	72.6	82.9	56	94	13.93

Year	Relative humidity (percent)		Wind speed (miles/hour)		Percent of possible sunshine	Days with precipitation .01 inch or more
	8 A.M.	2 P.M.	Annual average	Fastest mile 1/		
1976 ...	64	52	11.5	38	60	105
1977 ...	71	55	12.2	37	68	81
1978 ...	74	58	11.9	34	69	90
1979 ...	74	57	11.4	34	68	89
1980 ...	75	59	11.9	35	69	115
1981 ...	76	59	10.7	30	72	97
1982 ...	73	59	10.4	46	56	124
1983 ...	75	52	9.8	23	64	78
1984 ...	72	53	10.2	40	71	81
1985 ...	72	55	10.6	46	69	87
1986 ...	74	55	10.1	41	77	88

1/ 1984, 1985, and 1986 figures refer to peak gust.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, Local Climatological Data, Annual Summary With Comparative Data, Honolulu, Hawaii (annual).

Table 185.-- CLIMATIC DATA FOR THE PERIOD OF RECORD

Subject	Date	Place	Magnitude
Long-term averages:			
Lowest monthly average minimum temp. (°F.) ..	February	Mauna Kea summit ..	23.5
Lowest monthly average daily temp. (°F.)	February	Mauna Kea summit ..	31.3
Highest monthly average maximum temp. (°F.) .	September	Kawaihae 1/	91.9
Highest monthly average daily temp. (°F.) ...	September	Kawaihae 1/	80.8
Lowest average annual rainfall (inches)	....	Kawaihae	8.7
Highest average annual rainfall (inches)	....	Waialeale	444
Single events:			
Lowest temperature of record (°F.)	Jan. 20, 1970 ...	Mauna Kea summit 2/	1.4
Highest temperature of record (°F.)	April 27, 1931 ..	Pahala	100
Lowest annual rainfall of record (inches) ...	1953	Kawaihae	0.2
Highest annual rainfall of record (inches) ..	1982	Waialeale	666
Highest wind speed of record (m.p.h.)	Nov. 23, 1982 ...	Makahuena Pt. 3/ ..	117

1/ Puukohola Heiau National Historical Site, Kawaihae, Hawaii.

2/ Recorded by Dr. Alfred Woodcock 60 meters inside the Mauna Kea summit cone, at 6:50 a.m. The rim at that time had a temperature of 39° F.

3/ Makahuena Point Coast Guard Station, Poipu, Kauai.

Source: Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, data supplied September 2, 1987.

Table 186.-- RAINFALL AT SPECIFIED LOCATIONS: ANNUALLY, 1976 TO 1986

[In inches]

Year	Hawaii			Maui		
	Hilo Airport	Waimea 1/	Kona Village	Kahului Airport	Kihei	Lahaina
1976 ...	114.67	11.10	7.04	12.83	8.84	8.86
1977 ...	90.38	5.42	3.40	11.50	7.88	8.28
1978 ...	119.09	14.83	8.68	19.15	9.91	11.97
1979 ...	158.77	29.23	16.00	26.82	21.32	20.85
1980 ...	127.74	28.31	16.90	27.87	20.27	22.69
1981 ...	89.91	13.30	7.02	12.85	9.72	8.13
1982 ...	170.36	56.29	26.88	34.04	29.11	34.36
1983 ...	68.09	12.95	8.51	13.05	8.60	9.70
1984 ...	100.08	8.87	8.15	8.56	5.64	6.30
1985 ...	112.96	16.58	8.60	20.00	13.86	13.48
1986 ...	171.03	34.67	12.41	18.39	7.25	7.38

Year	Oahu			Kauai		
	Waikiki	Univ. of Hawaii	Nuuanu Res. 4	Koloa	Lihue Airport	Princeville
1976 ...	13.59	26.83	86.44	62.60	32.83	109.34
1977 ...	15.73	32.83	88.96	52.51	40.34	84.55
1978 ...	27.18	41.56	124.42	70.64	39.11	130.82
1979 ...	26.22	46.74	111.56	55.98	37.09	93.19
1980 ...	28.50	48.52	140.70	78.78	54.64	130.55
1981 ...	19.09	31.71	112.46	66.26	38.14	130.72
1982 ...	39.96	57.98	168.16	96.75	74.40	241.22
1983 ...	9.80	19.77	74.32	50.69	16.40	46.93
1984 ...	19.35	33.13	71.32	48.82	30.12	71.58
1985 ...	25.61	42.19	101.20	48.70	28.91	55.22
1986 ...	22.39	32.39	120.60	64.64	27.99	90.28

NA Not available.

1/ Lalamilo Field Office.

Source: U.S. Department of Commerce, National Climatic Data Center, Climatological Data, Annual Summary, Hawaii and Pacific (annual); and Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 187.-- MAJOR HURRICANES: 1950 TO 1987

[Complete to August 24, 1987]

Hurricane name	Date 1/	Islands most affected	Maximum winds ashore (m.p.h.)		Deaths	Property damage ($1,000)
			Sustained	Gusts		
Hiki	Aug. 12-16, 1950	Kauai	68	(NA)	1	200
Della	Sept. 1-17, 1957	French Frig. Shoals	82	109	-	Minor
Nina	Nov. 29-Dec. 7, 1957	Kauai	92	(NA)	4	1,056
Dot	Aug. 1-8, 1959	Kauai	81	103	-	5,500+
Fico	July 17-28, 1978	Hawaii	(NA)	58+	-	188
Iwa	Nov. 19-25, 1982	Kauai, Oahu	65	117	-	234,000

NA Not available.

1/ Total duration, including period outside Hawaiian waters.

Source: Samuel L. Shaw, *A History of Tropical Cyclones in the Central North Pacific and the Hawaiian Islands, 1832-1979* (U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service, September 1981); Hawaii State Department of Defense, Civil Defense Division, *Catalogue of Natural and Man-Caused Incidents and Disasters in the Hawaiian Islands* (December 1978); The Governor's Ad Hoc Committee on the Economic Impact of Hurricane Iwa, *Hurricane Iwa's Economic Impact on Hawaii* (January 1983); "The History of Hurricanes in Hawaii," *Honolulu Star-Bulletin*, July 18, 1983, p. A-5; Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 188.-- TRADE WINDS, HIGH SURF, AND TEMPERATURES IN HAWAIIAN WATERS, BY MONTHS

Month	Trade wind frequency 1/ (percent)	Expected days of strong trade winds 2/	Highest surf 3/ (average number of days)		Water temperature 4/ (°F.)	
			Flat or 1 foot	6 feet or more	Mean maximum	Mean minimum
Jan. ...	42	9	1	19	74.7	71.1
Feb. ...	55	7	1	16	75.6	70.3
March ..	61	10	1	12	76.5	71.8
April ..	74	10	3	7	77.7	73.0
May	86	7	8	3	79.5	74.7
June ...	91	7	15	-	81.1	77.7
July ...	95	10	16	-	81.1	78.3
Aug. ...	94	7	15	-	81.9	79.2
Sept. ..	83	4	10	2	81.9	78.4
Oct. ...	71	4	1	12	81.1	77.2
Nov. ...	64	8	-	19	79.3	74.5
Dec. ...	57	9	-	20	75.9	71.4
Ann. ...	65	92	71	110	78.6	74.8

1/ Mean monthly frequency of trade winds in Hawaiian waters.

2/ Expected number of hazardous days in Hawaiian waters due to strong trade winds.

3/ Observations at Sunset Beach, Oahu. Annual averages were: flat or 1 foot, 71 days; 2-5 feet, 184 days; 6-10 feet, 71 days; 11-15 feet, 26 days; 16 feet or higher, 13 days.

4/ Observations at Kaneohe, Oahu. The mean ranged from 73.0 in January and February to 80.2 in August. Absolute maximums and minimums were respectively 84 (in July, August, and October) and 68 (December and February).

Source: Paul Haraguchi, *Weather in Hawaiian Waters* (Honolulu: Pacific Weather, Inc., 1979), pages 14, 22, 56, and 74.

Table 189.-- AVERAGE WATER TEMPERATURES AT WAIKIKI BEACH

[In Fahrenheit degrees]

Month	Morning	Afternoon
March	75	77
August	77	82

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, Local Climatological Data, Annual Summary With Comparative Data, Honolulu, Hawaii, 1983.

Table 190.-- SUNRISE, SUNSET, AND HOURS OF DAYLIGHT AT HILO, HONOLULU, AND LIHUE, FOR SELECTED DATES

[Hawaiian Standard Time]

Subject	March 21	June 21	Sept. 23	Dec. 22
Sunrise (A.M.):				
Hilo	6:24	5:42	6:09	6:51
Honolulu	6:35	5:50	6:21	7:05
Lihue	6:41	5:55	6:26	7:12
Sunset (P.M.):				
Hilo	6:32	7:02	6:16	5:47
Honolulu	6:43	7:16	6:27	5:55
Lihue	6:49	7:23	6:33	6:00
Hours of daylight:				
Hilo	12:08	13:20	12:07	10:56
Honolulu	12:08	13:26	12:06	10:50
Lihue	12:08	13:28	12:07	10:48

Source: Nautical Almanac Office, U.S. Naval Observatory, Tables of Sunrise and Sunset, No. 1083 and 1084 and records.

Table 191.-- HAWAII AUDUBON SOCIETY BIRD COUNTS OF THE HONOLULU AREA: 1983 TO 1986

[Counts are made in late December, in a circle, 15 miles in diameter, centered near Nuuanu Pali]

Species 1/	1983	1984	1985	1986
All species:				
Species	46	46	51	50
Individual birds	22,279	25,809	28,803	28,690
Endemic species:				
'Apapane	106	96	66	85
Hawaiian Coot	135	40	23	23
Hawaiian Stilt	110	87	118	103
Oahu 'Amakihi	140	59	125	110
Indigenous species:				
Great Frigatebird	37	17	194	6
Red-footed Booby	370	624	531	402
Introduced species:				
Cattle Egret	384	477	656	988
Common Myna	3,080	3,611	3,586	5,420
House Sparrow	2,518	2,169	2,793	2,633
Japanese White-eye	1,706	1,235	1,628	1,078
Red-vented Bulbul	2,195	2,051	1,972	2,023
Spotted Dove	1,606	2,650	2,774	2,533
Zebra (Barred) Dove	3,840	7,624	7,299	7,860
Migratory species:				
Lesser Golden-Plover	1,747	1,359	1,846	1,482
Ruddy Turnstone	269	295	268	317

1/ Separate data are shown for endemic birds averaging more than 25 individuals in 1975-1979, indigenous birds more than 200, introduced birds more than 500, and migratory species and stragglers more than 100. Endemic birds are those peculiar to a particular region, in this case Hawaii, and therefore found nowhere else in the world; indigenous birds are those native to a given region, in this case Hawaii, but with a total range of distribution encompassing a much wider area. The classification is that in Andrew J. Berger, Hawaiian Birdlife (1972).

Source: Hawaii Audubon Society, The 'Elepaio (monthly).

Table 192.-- HAWAII AUDUBON SOCIETY BIRD COUNT OF THE HONOLULU AREA, BY TYPE OF SPECIES: DECEMBER 1986

Type of species 1/	Number of species	Number of individuals
All species	50	28,690
Endemic	7	354
Indigenous	7	496
Introduced	29	26,013
Migratory	7	1,827

1/ For definitions, see preceding table, footnote 1.

Source: Hawaii Audubon Society, "Honolulu Christmas Count -- 1986," *'Elepaio*, May 1987, pp. 51-53.

Table 193.-- TREES ALONG STREETS OR IN PARKS UNDER THE JURISDICTION OF THE CITY AND COUNTY OF HONOLULU: 1982 TO 1986

[As of June 30]

Location	1982	1983	1984	1985	1986
Along City and County streets and highways 1/	113,489	114,320	117,133	118,437	120,029
In City and County parks	96,296	96,504	96,873	96,727	96,896

1/ Excludes Federal, State, and private thoroughfares.

Source: City and County of Honolulu, Department of Parks and Recreation, records.

Table 194.-- THREATENED, ENDANGERED, AND EXTINCT SPECIES OF NATIVE FAUNA AND FLORA: NOVEMBER 1986

Type of fauna or flora	Native species	Candidate 1/	Threatened 1/	Endangered 1/	Extinct 2/
Land mammals	1	-	-	1	-
Marine mammals	18	-	-	8	-
Reptiles and amphibians ..	5	-	3	2	-
Birds	87	-	1	29	23
Freshwater fish	6	1	-	-	-
Invertebrates	(3/)	150	-	41	4/ 88
Plants	2,734	787	-	19	4/ 100

1/ Categories of the Federal List of Endangered and Threatened Species, as published in the *Federal Register*. Candidate species are those being officially considered for listing as threatened or endangered.

2/ Since 1778.

3/ Not known, but nearly 10,000 native species of insects and more than 1,000 native species of land snails have been estimated.

4/ Incomplete and probably much higher.

Source: U.S. Department of the Interior, Fish and Wildlife Service records; P. Q. Tomich, *Mammals in Hawaii* (1969); Robert L. Pyle, "Checklist of Birds of Hawaii," *The 'Elepaio*, November 1983; correspondence from W. C. Gagne, Entomology Department, Bishop Museum, July 3, 1985; H. St. John, *List and Summary of the Flowering Plants in the Hawaiian Islands* (1973), p. 519; University of Hawaii Department of Geography, *Atlas of Hawaii* (1983), pp. 80 and 83.

Section 6

LAND USE AND OWNERSHIP

General statistics on the use, ownership, and tenure of land appear in this section. Information on specific use or ownership categories is given elsewhere: parks in Section 7, military land in Section 10, agriculture in Section 19, forests in Section 20, and cane land and industrial parks in Section 22.

Out of the 4,112,000 acres in the State, 333,000 are in cropland and 974,000 in pastureland. Other major categories include forestland, with 1,473,000 acres, urban and built-up, with 126,000, and miscellaneous nonfarm, with 852,000. On Oahu, land in residential use increased from 22,600 acres in 1969 to 28,800 in 1986; during the same 17-year span, agricultural land declined from 88,900 to 77,100 acres. For the State as a whole, the Land Use Commission has zoned 165,000 acres as urban, 1,968,000 as conservation, 1,969,000 as agricultural, and 10,000 as rural.

Recent data on land ownership indicate that the Federal government owns 8.4 percent of all land, the State and counties own 29.7 percent, and private owners (chiefly large estates) have 61.9 percent. Total Federal holdings reported by the General Services Administration in 1985 came to 712,000 acres, exclusive of leased land (9,600 acres); most of the Federal land was in wildlife, park and military use. The State Department of Hawaiian Home Lands holds about 188,000 acres, divided among 4,346 lessees. Total land parcels in the State as of 1987 numbered 409,000.

Considerable caution is necessary in comparing statistics from different sources on land use, ownership, or tenure. Variations in definitions and survey dates seriously affect comparability in many instances, even where terminology is relatively unambiguous and misinterpretation seems unlikely. An example of such difficulties is the wide range in estimates of Federal land, with totals ranging from 330,000 acres to 712,000.

Tabulations by the U.S. Department of Agriculture and General Services Administration, Hawaii State Department of Hawaiian Home Lands, Department of Land and Natural Resources, Department of Business and Economic Development, and Land Use Commission, Honolulu Department of Finance, and Honolulu Department of General Planning provided the data for this section. Historical Statistics of Hawaii, Section 12, contains limited information for earlier years. Statistics for the nation as a whole are available in Sections 6, 7, 10, 23, and 24 of the Statistical Abstract of the United States: 1987.

Table 195.-- LAND OWNERSHIP, COVER, OR USE AND TYPES OF WATER AREAS, BY COUNTIES: 1982

[1,000 acres]

Category	State total 1/	City and County of Honolulu 1/	Other counties		
			Hawaii	Kauai	Maui 2/
Total area	4,141.3	397.2	2,582.5	403.0	758.6
Federal land	341.5	51.1	231.9	2.6	55.9
Nonfederal land	3,770.6	330.6	2,349.9	394.0	696.1
Rural land	3,609.6	268.0	2,288.7	379.0	673.9
Cropland	333.2	74.6	85.2	82.3	91.1
Pastureland	974.0	78.1	621.7	48.8	225.4
Rangeland	0.0	0.0	0.0	0.0	0.0
Forest land	1,473.5	104.3	891.7	230.7	246.8
Minor land cover/uses 3/ ..	828.9	11.0	690.1	17.2	110.6
Urban and built-up land	125.9	56.9	42.2	9.8	17.0
Rural transportation	22.8	4.7	10.3	3.1	4.7
Small water areas	12.3	1.0	8.7	2.1	0.5
Water bodies 4/	2.2	0.5	1.3	0.3	0.1
Perennial streams 5/	10.1	0.5	7.4	1.8	0.4
Census water 6/	29.2	15.5	0.7	6.4	6.6

1/ Excludes the Northwestern Hawaiian Islands, legally part of the City and County of Honolulu.

2/ Includes Kalawao County.

3/ Includes farmsteads and ranch headquarters (State total, 3.5), other land in farms (5.6), mines, quarries, and pits (0.0), small built-up areas (2.2), and other rural lands (817.6, of which 687.7 were in Hawaii County).

4/ Includes a State total of 0.8 in bodies less than 2 acres and 1.4 in bodies of 2 to 40 acres.

5/ Includes a State total of 4.1 in streams less than 66 feet wide and 6.0 in streams 66 to 660 feet wide.

6/ Larger water bodies not included in land area totals, as measured by the Bureau of the Census (Pearl Harbor, Kaneohe Bay, etc.).

Source: U.S. Department of Agriculture, Soil Conservation Service, *1982 National Resources Inventory*, tables 1c, 2c, 7c, and 8c for Hawaii (unpublished).

Table 196.-- LAND USE AND STRUCTURAL CHARACTERISTICS OF OAHU: 1985 AND 1986

Subject	Dec. 1985: Oahu total	Dec. 1986		
		Oahu total	Honolulu District	Rest of Oahu
LAND USE (IN ACRES)				
All existing uses	375,408	375,647	54,144	321,503
Single family	25,837	26,153	8,423	17,729
Multi-family	2,555	2,645	1,103	1,541
Industrial	10,000	10,370	4,234	6,136
Commercial	4,340	4,330	1,777	2,553
Hotel	223	300	128	172
Agriculture	77,240	77,087	308	76,780
Usable vacant	36,573	36,385	2,903	33,483
Other	218,642	218,376	35,268	183,108
STRUCTURES BY YEAR BUILT 1/				
All structures	146,192	147,761	63,799	83,962
Before 1930	8,269	8,102	6,185	1,917
1930 to 1939	9,744	9,622	6,117	3,505
1940 to 1949	16,137	16,007	9,129	6,878
1950 to 1959	30,764	30,649	14,789	15,860
1960 to 1969	41,619	41,572	15,747	25,825
1970 to 1979	28,296	28,282	8,217	20,065
1980 and later	11,363	13,527	3,615	9,912
DWELLING UNITS BY TYPE 1/				
All dwelling units	253,661	257,485	146,062	111,423
Single family and duplex	135,102	136,529	56,860	79,669
Low density multi-family	11,669	13,466	1,015	12,451
High density multi-family	106,890	107,490	88,187	19,303

1/ Data exclude structures on military bases.

Source: City and County of Honolulu, Department of General Planning, records.

Table 197.-- LAND PARCELS, BY COUNTIES: 1985 TO 1987

[As of January 1]

Year	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
1985	398,148	208,466	47,076	120,177	22,429
1986	404,018	212,868	47,321	121,349	22,480
1987	409,069	215,207	48,568	122,180	23,114

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, records.

Table 198.-- CEMETERIES, CHURCHES, HOSPITALS, AND SCHOOLS, BY COUNTIES: 1987

[Privately-owned parcels exempt from real property taxes]

Category	State total	Honolulu	Maui	Hawaii	Kauai
Cemeteries	134	49	33	44	8
Churches	1,371	759	203	275	134
Hospitals	75	62	10	-	3
Schools	129	95	5	26	3

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates & Exemptions, 1987-1988 Tax Year, State of Hawaii (July 1987), p. 6.

Table 199.-- ACREAGE OF LAND USE CLASSES, BY COUNTIES: JULY 1, 1987

[Based on land use classifications used for real property assessment purposes. Data exclude public streets and highways and other areas not in parcels of record]

Land use class 1/	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
All uses 2/	4,040,157	372,837	748,606	2,520,205	398,509
Improved residential ...	61,537	38,708	6,417	12,209	4,203
Apartment	5,696	2,472	1,052	1,604	568
Commercial	5,373	2,826	814	1,256	477
Industrial	19,938	10,316	1,770	6,550	1,302
Agricultural	1,939,702	135,598	404,283	1,196,373	203,448
Conservation	1,948,658	150,113	328,120	1,286,449	183,976
Hotel and resort	2,274	510	869	520	375
Unimproved residential .	56,979	32,294	5,280	15,245	4,160

1/ Based on "Pitt codes" as established by the "Pittsburgh Law" of differential tax rates for real property assessment and taxation as specified in Sec. 246-10, Hawaii Revised Statutes, 1985 Replacement.

2/ Because of excluded categories, these totals differ from figures for total area shown elsewhere in the *Data Book*.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, records.

Table 200.-- ESTIMATED ACREAGE OF LAND USE DISTRICTS: 1964 TO 1987

[Total acreage, including inland water, as classified by the Hawaii State Land Use Commission under the provisions of Chapter 205, Hawaii Revised Statutes. All data are approximate]

Year and month	Total area 1/	Classification by State Land Use Commission 2/			
		Urban	Conservation	Agricultural	Rural
1964: August ...	4,111,500	117,800	1,862,600	2,124,400	6,700
1969: August ...	4,111,500	140,163	2,009,087	1,955,875	6,375
1974: March	4,111,500	147,472	1,986,429	1,968,727	8,872
1975: February .	4,111,500	148,921	1,976,996	1,976,695	8,888
1977: January ..	4,111,500	149,263	1,976,996	1,976,327	8,914
1978: January ..	4,111,500	151,012	1,976,931	1,974,340	9,217
1979: January ..	4,111,500	151,929	1,976,106	1,974,230	9,235
1980: January ..	4,111,500	152,199	1,975,865	1,974,196	9,240
1981: January ..	4,111,500	154,319	1,975,836	1,972,104	9,241
1982: January ..	4,111,500	154,726	1,975,672	1,971,886	9,216
1983: January ..	4,112,388	156,413	1,975,473	1,971,279	9,223
1984: January ..	4,112,388	156,568	1,975,473	1,970,146	10,201
1985: January ..	4,112,388	158,620	1,969,351	1,974,236	10,181
1986: January ..	4,112,388	163,211	1,968,804	1,970,189	10,184
1987: January ..	4,112,388	165,165	1,967,638	1,969,401	10,184
ISLANDS: 1987					
Hawaii	2,573,400	40,928	1,301,353	1,230,500	619
Maui	465,800	17,104	193,679	251,277	3,740
Kahoolawe	28,800	-	28,800	-	-
Lanai	90,500	2,338	38,203	47,239	2,720
Molokai	165,800	2,503	49,768	111,657	1,872
Oahu	386,188	90,320	154,803	141,065	-
Kauai	353,900	11,972	198,732	141,963	1,233
Niihau	45,700	-	-	45,700	-
Kaula and Lehua	400	-	400	-	-
Other islands 3/	1,900	-	1,900	-	-

1/ These totals differ somewhat from the official figures based on measurements by the Geography Division of the U.S. Bureau of the Census, cited in Section 5. The increase in the 1983 total area reflects additions to the Urban District on Oahu at Honolulu International Airport (Reef runway and South Ramp refill) created from former submerged lands.

2/ For definitions, see Hawaii Revised Statutes, 1985 Replacement, Section 205-2.

3/ The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll, excluding Midway.

Source: Hawaii State Department of Planning and Economic Development, Land Use Commission, data supplied February 5, 1987.

Table 201.-- LAND OWNERSHIP OR TENURE: 1965 TO 1987

[1,000 acres. Government land leased to private users is included with privately owned land]

Year	All land 1/	Owned by government 2/			Privately owned land
		Federal	State	Counties	
1965	4,105.6	310.1	895.2	15.0	2,885.4
1970	4,112.3	309.2	835.3	12.1	2,955.6
1983	3,930.6	328.4	1,178.0	15.2	2,409.1
1984	3,931.4	327.6	1,197.8	15.2	2,390.8
1985	3,936.9	327.4	1,194.9	15.1	2,399.6
1986	3,934.2	329.9	1,152.6	15.2	2,436.5
1987	3,930.1	279.6	1,121.6	13.6	2,515.4

1/ Because of the omission of public thoroughfares and for other reasons, totals differ considerably from official area estimates in other tables in this volume.

2/ State land ceded by presidential proclamation or governor's executive order to the federal government appears in most cases to have been classified for this table as federal land, even though title to it technically remains with the state. Land ceded by the state to the counties, in contrast, has probably been classified as state land. For both types of ceded land, treatment may have varied from parcel to parcel.

Source: Real property tax records; tabulations in The State of Hawaii Data Book for 1970 (p. 38), 1971 (p. 55), 1983 (p. 192), 1984 (p. 225), 1985 (p. 190), 1986 (p. 200), and 1987 (following table).

Table 202.-- LAND OWNERSHIP OR TENURE, BY ISLANDS: FALL 1987

[In acres. Government land leased to private users is included with privately owned land]

Island	All land 1/	Land owned by government 2/			Privately owned land
		Federal	State	Counties	
State total 3/	3,930,143	279,558	1,121,632	13,561	2,515,393
Percent	100.0	7.1	28.5	0.3	64.0
Hawaii	2,497,177	171,425	754,866	1,274	1,569,612
Maui	398,560	26,872	98,817	1,309	271,562
Kahoolawe	28,800	28,800	-	-	-
Molokini	19	19	-	-	-
Lanai	88,986	5	124	14	88,843
Molokai	169,566	133	47,135	246	122,052
Oahu	349,767	48,873	69,554	10,128	221,212
Kauai	350,050	3,174	150,881	590	195,406
Niihau	46,705	-	-	-	46,705
Lehua and Kaula	512	256	256	-	-

1/ Because of the omission of public thoroughfares and for other reasons, totals by island may differ considerably from official area estimates in other tables in this volume.

2/ State land ceded by presidential proclamation or governor's executive order to the federal government appears in most cases to have been classified for this table as federal land, even though title to it technically remains with the state. Land ceded by the state to the counties, in contrast, has probably been classified as state land. For both types of ceded land, treatment may have varied from parcel to parcel.

3/ Data exclude the Northwestern Hawaiian Islands (1,722 acres).

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, records. Tabulation by State Department of Business and Economic Development.

Table 203.-- LAND IN HAWAII OWNED BY LARGE AND SMALL LANDOWNERS: 1984, 1985, AND 1986

Ownership	1984	1985	1986
Land area of State (acres) 1/	3,931,393	3,936,878	3,934,165
Owned by government 1/	1,540,611	1,537,327	1,497,713
Owned privately 1/	2,390,782	2,399,551	2,436,452
Six large owners 2/	941,586	941,850	938,422
Bernice P. Bishop Estate 3/	341,138	340,690	340,771
Richard S. Smart (Parker Ranch) 4/	139,301	139,301	139,301
Castle and Cooke, Inc. 5/	150,000	149,700	149,400
C. Brewer and Company, Ltd. 5/	94,688	95,800	92,591
Samuel M. Damon Estate 5/	121,659	121,659	121,659
Alexander and Baldwin, Inc. 5/	94,800	94,700	94,700
All others	1,449,196	1,457,701	1,498,030
Percent of total land area	100.0	100.0	100.0
Owned by government	39.2	39.0	38.1
Owned privately	60.8	61.0	61.9
Six large owners	24.0	23.9	23.9
All others	36.9	37.0	38.1
Percent of privately owned land	100.0	100.0	100.0
Six large owners	39.4	39.3	38.5
All others	60.6	60.7	61.5

1/ As of Summer 1984, Spring 1985, and Summer 1986. Because of the omission of public thoroughfares and for other reasons, the State total may vary from year to year and also may differ from official area estimates in other tables of this volume.

2/ Some of these figures are not exact accountings but are the landowners' best estimates. For earlier years (1964 and 1979-1983), see Data Book 1981, table 142, and Data Book 1984, table 205.

3/ As of June 30.

4/ As of December 31. The total size of the Parker Ranch, including leased land, was 225,000 acres during this period.

5/ As of December 31.

Source: State total, government total, and private total from The State of Hawaii Data Book 1986, table 193; six large owners from DBED survey of those owners; all other owners calculated as a residual.

Table 204.-- REAL PROPERTY OWNED BY OR LEASED TO THE FEDERAL GOVERNMENT: 1983 TO 1985

Subject	Sept. 30, 1983	Sept. 30, 1984 1/	Sept. 30, 1985
OWNED			
Number of installations	304	(NA)	312
Land area, total (acres)	691,053.6	683,716.2	711,699.7
Urban	86,481.0	(NA)	91,112.4
Rural	604,572.6	(NA)	620,587.3
Number of buildings	15,032	(NA)	15,665
Cost, total ($1,000) 2/	1,741,836	(NA)	2,208,937
Land	46,839	(NA)	221,002
Buildings	1,032,470	(NA)	1,235,490
Structures and facilities	662,527	(NA)	752,445
Predominant usage (acres):			
Agriculture and grazing	-	(NA)	-
Forest and wildlife	255,620.2	(NA)	255,650.0
Parks and historic sites	238,854.3	(NA)	245,110.1
Power development and distribution	-	(NA)	-
Reclamation and irrigation	-	(NA)	-
Office building locations	53.7	(NA)	52.7
Military, excluding airfields	110,023.8	(NA)	113,103.0
Airfields	6,136.8	(NA)	10,689.6
Harbor and port facilities	23.6	(NA)	23.6
Flood control and navigation	1,457.5	(NA)	1,424.2
Vacant	3.0	(NA)	3.0
Institutional	358.0	(NA)	358.0
Housing	84.2	(NA)	87.4
Storage	833.1	(NA)	926.1
Industrial	1,978.7	(NA)	9,881.4
Research and development	2.5	(NA)	8.0
Other land	75,624.2	(NA)	74,382.6
LEASED			
Number of leases	294	321	289
Land area, total (acres)	51,852.3	50,705.6	9,624.5
Urban	209.5	244.0	396.9
Rural	51,642.8	50,461.6	9,227.6
Number of building locations	179	219	186
Floor area of buildings (sq. ft.)	318,446	430,196	425,863
Annual rental ($1,000)	2,398	2,781	2,795

Footnote and source on next page.

Table 204.-- REAL PROPERTY OWNED BY OR LEASED TO THE FEDERAL GOVERNMENT: 1983 TO 1985 -- Con.

NA Not available.

1/ Total acreage owned corrected from figures published in source. Other 1984 statistics on Federally-owned property reported in the source likewise contained serious errors but were not corrected, and hence are omitted from this table.

2/ At time of acquisition. Includes estimated equivalent cost of properties acquired through donation, exchange, devise, forfeiture, or judicial process.

Source: U.S. General Services Administration, *Summary Report of Real Property Owned by the United States Throughout the World* (annual) and *Summary Report of Real Property Leased to the United States Throughout the World* (annual). The 1984 data were corrected by GSA on May 23, 1986.

Table 205.-- DEPARTMENT OF HAWAIIAN HOME LANDS ACREAGE, LESSEES, AND APPLICANTS, BY ISLANDS: JUNE 30, 1986

[The Department of Hawaiian Home Lands administers land set aside for the benefit of qualified native Hawaiians, who receive homestead leases and financial assistance from the Department]

Island	Acreage		Homestead		Applicant waiting list	
	Total	In homestead use	Agricultural and pastoral	Residential	Agricultural and pastoral	Residential
State total ..	187,597	32,528	1,166	4,599	3,915	8,126
Hawaii	107,981	20,943	536	1,027	2,014	1,940
Maui	28,995	541	68	492	827	839
Molokai	25,401	9,294	448	302	342	378
Oahu	6,651	921	66	2,372	211	4,416
Kauai	18,569	829	48	406	521	553

Source: Hawaii State Department of Hawaiian Home Lands, *'Aina Ho'opulapula. Annual Report, FY 1986*, pp. 19-21 and 24.

Table 206.-- STATE PUBLIC AND SET-ASIDE LAND INVENTORY, BY COUNTIES: JULY 1987

[In thousands of acres]

Type of document	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
All types	1,413.5	67.8	979.3	155.3	211.2
Public lands	445.7	15.2	353.5	38.3	38.6
General lease 1/	225.5	4.7	188.9	23.1	8.8
Revocable permit 2/	110.4	2.8	73.5	11.9	22.1
Unencumbered lands 3/...	109.8	7.7	91.1	3.3	7.7
Lands set aside to other government agencies	757.2	42.3	509.6	96.1	109.3
Executive order	231.7	13.1	169.3	23.8	25.5
Governor's proclamation	525.5	29.2	340.3	72.3	83.8
Dept. of Hawaiian Home Lands	192.0	4.9	107.9	19.0	60.2
University of Hawaii	1.8	0.7	0.5	0.4	0.1
Hawaii Housing Authority .	1.5	1.2	0.1	0.0	0.1
Highways and roads	15.3	3.5	7.7	1.2	2.9

1/ Long-term leases. Mostly agricultural and pasture land.
2/ Month-to-month leases. Mostly agricultural and pasture land.
3/ Parcels with no documents and not in use.
Source: Hawaii State Department of Land and Natural Resources, Land Management Division, records.

Section 7

RECREATION AND TOURISM

Statistics on tourism, recreation, sports, museums, parks, pets, and the performing arts appear in this section. Additional information on recreational and resort land use is given in Section 6; on transportation, in Section 18; and on hotels and hotel workers, in Sections 12, 13, 15 and 23.

Approximately 5,607,000 visitors stayed overnight or longer in Hawaii during 1986, compared with 3,220,000 in 1976 and only 835,000 in 1966. The average number present at any given time during 1986 was 133,000. Total visitor expenditures (exclusive of trans-Pacific fares) in 1986 amounted to $5.5 billion, compared with $1.6 billion a decade earlier. The 1986 visitor total included 3.7 million from other States, 282,000 from Canada, and 944,000 from Japan. Expenditures per visitor day in 1986 averaged $95.40 for westbound visitors and $257 for the Japanese. Visitor-related spending in 1985 resulted in tax revenues of $600 million and generated 175,000 jobs.

Both visitors and residents have access to a wide range of recreational and cultural facilities. The State has seven national parks and similar areas, 76 State parks, 560 county parks, 57 golf courses, 274 public tennis courts, 2,055 small-boat moorages, 1,600 recognized surfing sites, and 24.4 miles of safe, sandy, accessible beach. Recreational, scenic and cultural facilities reporting more than two million annual visits each in 1986 included Waikiki Beach, Hanauma Bay, the National Memorial Cemetery of the Pacific, and Wailua River State Park. Total visits to 49 museums, State monuments and similar attractions in 1986 numbered 13.4 million. About 411,000 Hawaii residents traveled to the Mainland in 1986. Twelve theatrical groups on Oahu reported 1,245 performances of 353 productions for the 1985-1986 season, with a combined audience of 845,000. During the same season, the Honolulu Symphony Orchestra gave 137 concerts, with a total attendance of 208,000. Professional baseball drew 116,000 fans in 1987, and during the 1986-1987 school year, attendance at UH-Manoa varsity baseball, basketball and football home games was 514,000.

Information on recreation and tourism is issued periodically by the Hawaii Visitors Bureau (particularly in its Annual Research Report), the State Parks Division of the Department of Land and Natural Resources, the Hawaii State Department of Business and Economic Development, U.S. National Park Service, County park and recreation departments, and other organizations. Long-term trends are summarized in Historical Statistics of Hawaii, Section 11. National statistics are given in Section 7 of Statistical Abstract of the United States: 1987.

Table 207.-- PASSENGERS ARRIVING, BY DIRECTION OF TRAVEL AND TRANSIT STATUS: 1977 TO 1986

Direction and status	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
All directions ..	4,544,802	4,784,561	5,291,333	5,380,383	5,305,809	5,580,240	5,546,540	6,107,730	6,314,290	7,063,710
Landing	3,668,419	3,898,864	4,144,183	4,172,640	4,211,250	4,582,020	4,653,450	5,242,770	5,338,170	6,068,990
Intransit	876,383	885,697	1,147,150	1,207,743	1,094,559	998,220	893,090	864,960	976,120	994,720
Westbound 1/	3,434,979	3,664,351	3,839,041	3,861,059	3,780,383	4,078,360	4,098,720	4,543,890	4,675,690	5,245,690
Landing	2,986,458	3,227,409	3,292,928	3,257,853	3,223,653	3,589,625	3,654,560	4,082,070	4,137,830	4,689,480
Intransit	448,521	436,942	546,113	603,206	556,730	488,735	444,160	461,820	537,860	556,210
Eastbound 2/	1,109,823	1,120,210	1,452,292	1,519,324	1,525,426	1,501,880	1,447,820	1,563,840	1,638,600	1,818,020
Landing	681,961	671,455	851,255	914,787	987,597	992,390	998,890	1,160,700	1,200,340	1,379,510
Intransit	427,862	448,755	601,037	604,537	537,829	509,490	448,930	403,140	438,260	438,510

1/ Arriving from North America.
2/ Arriving from Asia or Oceania.
Source: Hawaii Visitors Bureau, 1986 Annual Research Report, p. 4, as corrected.

Table 208.-- RESIDENCE STATUS OF WESTBOUND PASSENGERS ARRIVING IN HAWAII: 1981 TO 1986

[Based on a 20-percent sample through 1983 and a 10-percent sample thereafter]

Year	All westbound passengers	Visitors destined to Hawaii	Visitors destined beyond Hawaii		Returning residents	Intended residents
			Overnight or longer	In transit		
1981	3,780,383	2,611,142	363,649	556,730	230,728	18,134
1982	4,078,360	2,896,255	382,270	488,725	290,040	21,070
1983	4,098,740	3,086,995	309,120	444,180	236,725	21,720
1984	4,543,890	3,385,880	335,500	461,820	333,640	27,050
1985	4,675,690	3,386,530	322,080	537,860	403,450	25,770
1986	5,245,690	3,915,770	340,620	556,210	411,440	21,650

Source: Hawaii Visitors Bureau, 1986 Annual Research Report, p. 6.

Table 209.-- WESTBOUND PARTIES, BY VISITOR STATUS: 1985 AND 1986

Year	All surveyed parties	Visitors destined --		Returning residents	Intended residents
		To Hawaii	Beyond Hawaii		
1985 ..	2,315,680	1,826,310	193,790	281,390	14,190
1986 ..	2,625,310	2,124,390	204,100	284,020	12,800

Source: Hawaii Visitors Bureau, 1986 Annual Research Report, p. 8.

Table 210.-- VISITOR ARRIVALS AND AVERAGE VISITOR CENSUS: 1921 TO 1964

Year	Visitor arrivals 1/	Average visitor census 2/
1921	8,000	...
1922	9,676	...
1923	12,021	...
1924	12,468	...
1925	15,193	...
1926	16,762	...
1927	17,451	...
1928	19,980	...
1929	22,190	...
1930	18,651	...
1931	15,780	1,200
1932	10,370	...
1933	10,111	...
1934	16,161	...
1935	19,933	...
1936	22,199	...
1937	21,987	...
1938	23,043	...
1939	24,390	...
1940	25,373	1,648
1941	31,846	2,069
1942-45 3/	-	-
1946	15,000	975
1947	25,000	1,625
1948	36,397	2,366
1949	34,386	2,235
1950	46,593	3,027
1951	51,565	3,350
1952	60,539	3,796
1953	80,346	4,746
1954	91,289	5,369
1955	109,798	6,042
1956	133,815	6,947
1957	168,829	8,205
1958	171,588	8,397
1959	243,216	10,390
1960	296,517	11,797
1961	319,807	11,960
1962	362,145	13,125
1963	429,140	15,316
1964 4/ .	508,870	16,739

1/ Visitors staying overnight or longer. Data before 1946 exclude steerage passengers and those aboard government ships and aircraft. Figures for 1946 and later years limited to passengers aboard civilian carriers. Data for 1951-1964 not adjusted for survey nonresponse, which was relatively small during those years; for adjusted estimates, including annual estimates back to 1800, see L.J. Crampon, Hawaii's Visitor Industry, Its Growth and Development (School of Travel Industry Management, University of Hawaii, 1976; unpublished), pp. 316-317.

2/ Average number present on any day of the year. Estimates not regularly available before 1940.

3/ War years; visitor industry suspended.

4/ For figures adjusted for nonresponse, see following table.

Source: Visitor arrivals, 1921-1950, from Robert C. Schmitt, Origins of the Hawaii Visitors Bureau Research Program, 1911-1950 (University of Hawaii at Manoa, School of Travel Industry Management and Social Science Research Institute, Tourism Research Publications, Occasional Paper No. 7, 1984), pp. 17 and 19. Visitor arrivals, 1951-1964, and average visitor census, 1951-1964, from Hawaii Visitors Bureau, Annual Research Report, 1952-1964. Average visitor census, 1931-1950, estimated by Hawaii State Department of Planning and Research.

Table 211.-- VISITOR ARRIVALS AND AVERAGE VISITOR CENSUS: 1964 TO 1986

Year	Visitors staying overnight or longer			Average number of visitors present		
	Total	West-bound 1/	Other	Total	West-bound 1/	Other
1964	563,925	460,290	103,635	16,037	14,901	1,136
1965	686,928	567,218	119,710	17,369	16,057	1,312
1966	835,456	686,886	148,570	20,918	19,271	1,647
1967	1,124,818	893,103	231,715	27,630	24,898	2,732
1968	1,314,571	1,015,844	298,727	32,335	28,784	3,551
1969	1,527,012	1,181,029	345,983	37,198	33,088	4,110
1970	1,746,970	1,326,135	420,835	36,943	32,028	4,915
1971	1,818,944	1,430,325	388,619	40,889	36,504	4,385
1972	2,244,377	1,782,737	461,640	50,143	45,098	5,045
1973	2,630,952	2,067,861	563,091	59,578	53,407	6,171
1974	2,786,489	2,184,620	601,869	63,535	56,939	6,596
1975	2,829,105	2,207,417	621,688	66,308	59,495	6,813
1976	3,220,151	2,551,601	668,550	75,532	68,225	7,307
1977	3,433,667	2,763,312	670,355	83,030	75,684	7,346
1978	3,670,309	3,030,999	639,310	92,034	85,028	7,006
1979	3,960,531	3,139,455	821,076	98,676	89,678	8,998
1980	3,934,504	3,046,132	888,372	96,497	86,788	9,709
1981	3,934,623	2,974,791	959,832	95,968	85,449	10,519
1982	4,242,925	3,278,525	964,400	105,310	94,740	10,570
1983	4,368,105	3,396,115	971,990	108,045	97,395	10,650
1984	4,855,580	3,721,380	1,134,200	118,660	106,260	12,400
1985	4,884,110	3,708,610	1,175,500	116,700	103,820	12,880
1986	5,606,980	4,256,390	1,350,590	132,910	118,110	14,800

1/ Arriving from the Mainland United States or Canada. Based on a 20-percent sample through 1983 and a 10-percent sample thereafter.

Source: Hawaii Visitors Bureau, Annual Research Report (annual) and records.

Table 212.-- VISITOR DAYS, BY DIRECTION OF TRAVEL: 1985 AND 1986

Year	Total	Westbound	Eastbound and northbound
1985	42,596,920	37,894,920	4,702,000
1986	48,512,670	43,110,310	5,402,360

Source: Hawaii Visitors Bureau, 1986 Annual Research Report, p. 5.

Table 213.-- RESIDENCE OF OVERNIGHT AND LONGER VISITORS TO HAWAII: 1983 TO 1986

[Approximate figures, in thousands]

Place of residence	1983	1984	1985	1986
Total	4,368	4,856	4,884	5,607
United States	2,906	3,168	3,200	3,739
Foreign	1,462	1,688	1,684	1,868
Asia	818	924	986	1,083
Japan	729	816	855	944
Other Asia	89	108	131	139
Canada	268	330	279	282
Europe	68	63	59	99
United Kingdom	39	36	31	49
West Germany	20	18	19	30
Other Europe	9	9	9	20
Oceania and South Pacific	274	334	323	360
Australia	167	210	204	219
New Zealand	67	76	78	98
Other South Pacific	40	48	41	43
Other foreign	34	37	37	44

Source: Hawaii Visitors Bureau, tabular release dated March 1987.

Table 214.-- WESTBOUND VISITOR ARRIVALS, BY COUNTIES VISITED: 1981 TO 1986

[Covers westbound visitors staying overnight or longer anywhere in the State, and any overnight or non-overnight interisland trips reported by these visitors. Based on a 20-percent sample through 1983 and a 10-percent sample thereafter]

Year	State total 1/	City and Co. of Honolulu	Hawaii County	Kauai County	Maui County
1981 ...	2,974,791	2,398,480	672,683	757,811	1,389,892
1982 ...	3,278,525	2,589,190	678,170	733,295	1,550,080
1983 ...	3,396,115	2,591,635	712,380	691,940	1,644,605
1984 ...	3,721,380	2,901,320	760,940	814,590	1,854,690
1985 ...	3,708,610	2,828,640	697,380	832,580	1,831,110
1986 ...	4,256,390	3,146,030	786,930	1,014,650	2,001,870

1/ Because many visitors visited more than one county, county data sum to totals greater than the State totals shown here.

Source follows next table.

Table 215.-- AVERAGE VISITOR CENSUS, BY COUNTIES: 1981 TO 1986

[Unlike the preceding table, this table includes eastbound and northbound visitors (all of whom have been included with the City and County of Honolulu) as well as westbound visitors. Based on a 20-percent sample through 1983 and a 10-percent sample thereafter]

Year	State total	City and Co. of Honolulu	Hawaii County	Kauai County	Maui County
1981 ...	95,968	66,455	6,561	7,225	15,727
1982 ...	105,310	73,445	6,725	7,050	18,090
1983 ...	108,045	66,695	8,690	7,990	24,670
1984 ...	118,660	67,370	7,570	10,930	32,790
1985 ...	116,700	65,280	8,040	11,470	31,910
1986 ...	132,910	73,870	9,870	14,840	34,330

Source: Hawaii Visitors Bureau, release dated March 1987 and records.

Table 216.-- SUMMARY CHARACTERISTICS OF WESTBOUND VISITORS TO HAWAII: 1976 TO 1986

[Based on a 20-percent sample through 1983 and a 10-percent sample thereafter]

Year	Residence (percent) 1/		Males per 1,000 females	Median age (years)	High status occupations 2/ (percent)	Persons per party
	Pacific & Mountain States	California				
1976	37.9	24.0	787	44.8	58.4	1.75
1977	40.2	25.8	802	43.2	58.8	1.78
1978	41.3	26.0	810	42.9	59.8	1.81
1979	43.1	25.7	823	41.7	60.1	1.80
1980	47.1	30.6	829	41.3	62.0	1.79
1981	45.8	30.3	810	40.2	61.0	1.82
1982	44.2	29.5	789	39.1	61.5	1.82
1983	49.1	34.3	825	39.8	61.7	1.83
1984	41.9	27.2	812	40.1	61.5	1.84
1985	41.6	27.3	805	39.7	62.1	1.85
1986	45.2	29.8	829	39.7	62.8	1.84

Year	Arriving June 1-Aug. 31 (percent)	Repeat visitors 3/ (percent)	Pleasure trip (percent)	Staying in hotel 4/ (percent)	Average intended stay 5/ (days)	Intending to visit Neighbor Islands 6/ (percent)
1976	28.3	38.7	79.0	...	10.7	65.6
1977	27.3	41.1	78.6	...	10.9	66.8
1978	26.7	42.8	76.5	...	11.2	68.2
1979	27.0	44.1	76.7	74.4	11.2	68.5
1980	28.6	48.4	75.4	71.2	11.2	68.3
1981	28.4	47.2	77.7	70.1	11.3	67.0
1982	27.9	45.9	80.4	64.6	11.2	67.3
1983	28.9	50.4	77.8	61.7	11.0	66.9
1984	26.7	47.3	79.7	62.7	10.9	69.0
1985	25.7	46.3	80.2	58.1	10.7	69.3
1986	27.5	49.2	82.2	55.8	10.5	69.0

Footnotes and source on next page.

Table 216.-- SUMMARY CHARACTERISTICS OF WESTBOUND VISITORS TO HAWAII: 1976 TO 1986 -- Con.

1/ Base includes estimated number of visitors arriving directly from Canada and usually omitted from the Hawaii Visitors Bureau Basic Data Survey.

2/ Party heads only. Calculated as the number of professional, technical, business, managerial and official workers as a percent of all party heads responding to this question.

3/ Party heads only.

4/ Excludes condominiums operating as hotels. Data for years before 1979 are not comparable in coverage.

5/ Computed from total visitor days and total visitor arrivals for westbound visitors destined for Hawaii. These data may differ somewhat from corresponding data in the source, because of different computation procedures.

6/ Base includes passengers who did not answer this question.

Source: Hawaii Visitors Bureau, Annual Research Report for 1976-1986 and records.

Table 217.-- VISITOR INDUSTRY PROJECTIONS: 1985 TO 2005

[Series M-F projections, recommended by DBED for State planning purposes]

Year	Visitor arrivals (1,000)	Average visitor census (1,000)		Hotel employment (1,000)		Visitor and crew expenditures (millions of 1980 dollars)
		State total	Oahu only	State total	Oahu only	
1985 (est.) ..	4,884	117	65	28.0	16.0	3,827
1990	6,083	156	95	31.8	16.2	4,477
1995	7,052	179	102	35.0	16.8	5,190
2000	7,786	198	107	36.9	17.0	5,731
2005	8,183	208	112	37.1	17.1	6,023

Source: 1985 from Hawaii Visitors Bureau and Hawaii State Department of Labor and Industrial Relations; 1990-2005 from Hawaii State Department of Planning and Economic Development, Population and Economic Projections for the State of Hawaii, 1980-2005 (July 1984), p. 20.

Table 218.-- DEMOGRAPHIC CHARACTERISTICS OF WESTBOUND VISITORS TO AND BEYOND HAWAII: 1985 AND 1986

[Data limited to visitors staying overnight or longer]

Subject	Visitors to Hawaii		Visitors beyond Hawaii	
	1985	1986	1985	1986
All visitors	3,386,530	3,915,770	322,080	340,620
Age:				
Under 10 years	93,490	116,400	21,640	22,890
10 to 19 years	238,180	286,700	26,250	27,920
20 to 29 years	597,040	672,920	60,860	66,880
30 to 39 years	694,380	810,010	66,840	67,330
40 to 49 years	605,280	707,630	52,760	54,160
50 to 59 years	489,980	554,330	37,020	38,400
60 years and over	490,810	582,720	27,050	31,260
Age not reported	177,370	185,060	29,660	31,780
Sex:				
Male	1,510,570	1,775,170	176,300	185,500
Female	1,875,960	2,140,600	145,780	155,120
Residence (census divisions):				
Pacific	1,167,580	1,490,470	14,000	16,380
Alaska	20,430	33,010	530	450
California	923,020	1,167,210	10,880	12,830
Oregon	75,270	91,930	830	930
Washington	148,860	198,320	1,760	2,170
Mountain	240,190	279,590	2,910	3,710
West North Central	222,680	229,280	1,990	3,140
West South Central	252,940	239,820	4,700	4,220
East North Central	408,040	457,560	5,410	6,950
East South Central	87,250	83,460	1,250	1,520
New England	124,150	138,500	2,420	3,440
Middle Atlantic	308,700	355,280	7,550	10,370
South Atlantic	282,900	312,350	9,300	9,860
U.S. territories	310	400	2,970	2,540
Canada	241,420	247,140	3,120	4,910
Other foreign	49,960	81,690	266,370	273,540
Residence not reported	410	230	90	40

Source: Hawaii Visitors Bureau, Annual Research Report for 1985 and 1986.

Table 219.-- TRIP CHARACTERISTICS OF WESTBOUND VISITORS TO AND BEYOND HAWAII: 1985 AND 1986

[Data limited to visitors staying overnight or longer]

Subject	Visitors to Hawaii		Visitors beyond Hawaii	
	1985	1986	1985	1986
All visitors	3,386,530	3,915,770	322,080	340,620
Purpose of trip:				
Pleasure	2,703,340	3,202,700	263,610	283,410
Business	68,080	82,760	14,360	12,640
Business and pleasure	357,590	391,490	24,710	25,810
Government and military	15,770	19,650	5,160	4,750
Visiting relatives	92,030	94,870	5,810	5,210
Attend school	1,770	1,690	310	340
Convention	122,600	92,550	2,440	2,760
Other	8,430	9,170	2,330	2,020
Purpose not reported	16,920	20,890	3,350	3,680
Traveler status:				
Organized tour group	605,130	576,320	58,520	49,810
Individual basis	2,560,190	3,005,870	250,010	271,410
Incentive	166,520	212,750	4,700	6,670
Government/military	15,770	19,790	5,160	4,760
No answer	38,920	101,040	3,690	7,970
Intended accommodations:				
Hotel	1,966,350	2,184,010	263,590	269,590
Condominium	707,040	868,900	26,480	34,160
Hotel and condominium	324,570	418,900	6,750	10,470
Friend's or relative's home	259,340	293,670	18,390	18,810
Other accommodations	126,430	146,130	5,920	6,440
Not reported	2,800	4,160	950	1,150

Source: Hawaii Visitors Bureau, Annual Research Report for 1985 and 1986.

Table 220.-- INTENDED LENGTH OF STAY OF WESTBOUND VISITORS TO AND BEYOND HAWAII: 1984 TO 1986

[Data limited to visitors staying overnight or longer]

Destination and length of stay	1984	1985	1986
VISITORS TO HAWAII			
Total	3,385,880	3,386,530	3,915,770
2 to 6 days	280,350	261,880	348,680
7 to 12 days	2,216,920	2,294,890	2,672,040
13 to 18 days	696,160	658,750	710,750
19 to 24 days	99,760	89,140	95,990
25 to 30 days	43,730	39,480	44,860
31 to 60 days	42,140	38,100	36,700
61 to 90 days	6,080	3,680	5,230
91 to 365 days	740	610	1,520
Median (days)	10.3	10.2	10.1
VISITORS BEYOND HAWAII			
Total	335,500	322,080	340,620
2 days	28,410	26,410	28,160
3 days	71,160	70,840	68,680
4 to 6 days	151,470	152,470	165,410
7 to 12 days	67,320	60,540	65,120
13 to 365 days	16,620	11,820	13,250
Median (days)	4.8	4.8	4.8

Source: Hawaii Visitors Bureau, Annual Research Report for 1984-1986.

Table 221.-- CHARACTERISTICS OF WESTBOUND VISITOR PARTY HEADS TO AND BEYOND HAWAII: 1985 AND 1986

[Data limited to visitors staying overnight or longer]

Subject	Visitors to Hawaii		Visitors beyond Hawaii	
	1985	1986	1985	1986
All party heads	1,826,310	2,124,390	193,790	204,100
Occupation:				
Professional and technical ...	659,880	784,400	60,500	63,980
Business, managerial, official	458,570	529,930	60,980	63,130
Clerical, office, sales	175,890	193,710	15,160	16,860
Military service	17,740	23,570	3,870	4,120
Other employed	122,590	126,200	10,770	11,490
Military dependent	3,020	4,410	350	300
Retired	241,260	288,280	14,410	16,370
Student	76,120	93,410	16,540	17,070
Other non-employed	45,070	49,030	6,640	6,760
Not reported	26,170	31,450	4,570	4,020
Trips to Hawaii:				
First trip	913,780	997,550	90,770	97,700
Second trip	320,810	378,880	34,650	36,970
Third trip	148,660	183,600	14,450	15,610
Fourth trip and over	319,520	403,600	35,200	34,720
Not reported	123,540	160,760	18,720	19,100
Persons in party:				
1 person	336,180	750,460	68,740	118,710
2 persons	1,082,420	1,143,070	64,400	58,530
3 persons	146,840	100,360	18,000	9,930
4 persons	163,630	91,930	26,700	11,550
5 persons or more	97,240	38,570	15,950	5,380
Average size	1.85	1.84	1.66	1.67

Source: Hawaii Visitors Bureau, Annual Research Report for 1985 and 1986.

Table 222.-- FAMILY INCOME, TRIP CHARACTERISTICS, AND OPINIONS OF MAINLAND VISITORS TO HAWAII: 1980 TO 1983

Subject	1980	1981	1982	1983
Number of respondents in sample	5,180	4,984	5,810	5,736
Family income before taxes (percent) ..	100.0	100.0	100.0	100.0
Under $15,000	10.3	7.5	6.0	5.0
$15,000 to $24,999	19.4	16.6	16.3	14.7
$25,000 to $34,999	24.1	22.2	21.7	20.3
$35,000 to $49,999	24.0	24.8	24.4	25.2
$50,000 and over 1/	22.2	28.9	31.6	34.8
Median income (dollars)	33,400	37,300	38,700	41,000
Education: college graduates (percent)	54.5	57.6	56.0	56.6
Using travel agent (percent)	79.6	79.0	78.7	80.2
Islands visited (percent):				
Oahu only	26.6	27.2	29.2	29.0
Hawaii	30.2	24.5	22.7	23.4
Maui	53.4	54.0	52.7	53.0
Kauai	34.6	33.0	27.3	27.0
Molokai	0.6	0.6	0.5	0.2
Hawaii compared with other vacation areas visited (percent)	100.0	100.0	100.0	100.0
Far superior	35.2	37.0	37.9	39.7
Above average	54.2	53.9	53.3	53.3
Average	9.4	8.3	7.8	6.4
Below average	1.0	0.7	0.8	0.6
Quite inferior	0.1	0.2	0.1	(Z)

Z Less than 0.05 percent.

1/ Data for 1983 were reported in two classes, $50,000 to $74,999 (21.4 percent) and $75,000 and over (13.4 percent).

Source: Hawaii Visitors Bureau, Visitor Reaction Survey (annual summaries).

Table 223.-- MEETINGS AND CONVENTIONS: 1981 TO 1986

Year	No. of meetings held	Estimated attendance	Estimated guest rooms	Estimated revenue ($1,000)
1981	505	181,662	84,142	134,164
1982	439	167,558	78,589	123,748
1983	420	211,764	(NA)	156,396
1984	623	255,152	91,605	218,247
1985	740	247,166	104,354	219,882
1986	810	250,703	98,591	249,042

NA Not available.

Source: Hawaii Visitors Bureau, Meetings and Conventions Department.

Table 224.-- MEETINGS AND CONVENTIONS, BY ISLANDS: 1985 AND 1986

Island	Number of meetings held		Estimated attendance	
	1985	1986	1985	1986
State total 1/	740	810	247,166	250,703
Hawaii:				
Hilo	3	7	990	1,187
Kona	79	76	17,127	18,248
Maui	231	268	49,180	48,859
Molokai	2	2	375	67
Oahu	398	404	170,624	171,893
Kauai	54	53	12,853	10,449

1/ Because some meetings took place on more than one island, detail does not add to indicated totals.

Source: Hawaii Visitors Bureau, Meetings and Conventions Department.

Table 225. -- RANKING AS A VACATION DESTINATION, BY MEASURE OF ATTRACTIVENESS: 1985

[Rank of Hawaii among 107 major vacation destinations in the U.S., based on the most recent available data]

Measure of attractiveness	Rank	Measure of attractiveness	Rank
Overall rank	3	Basic necessities	36
		Discovering our heritage	20
Blessings of nature	5	Feeding mind and spirit	24
Outdoor fun	3	Entertainment for all	55

Source: Sylvia McNair, Rand McNally Vacation Places Rated (Rand McNally and Company, 1986), p. 195.

Table 226.-- AVERAGE EXPENDITURE PER VISITOR DAY, BY ORIGIN OF VISITORS: 1931-1932 TO 1986

[Dollars]

Year	Main-landers	Japanese	Year	Main-landers	Japanese
1931-32 1/	17.50	(NA)	1977	54.62	146.85
1951	28.00	(NA)	1980	71.24	185.00
1960-61	32.00	(NA)	1983	85.88	227.32
1965-66 1/	37.23	(NA)	1986	95.40	257.40
1974	46.20	123.00			

NA Not available.

1/ Oahu only.

Source: Hawaii Visitors Bureau, 1983 Visitor Expenditure Survey (1985), p. 31, 1986 Visitor Expenditure Survey (1987), p. 46, and unpublished 1986 Japanese estimate.

Table 227.-- EXPENDITURES PER VISITOR DAY BY WESTBOUND VISITORS, BY EXPENDITURE TYPE: 1983 AND 1986

[In dollars. Excludes transpacific travel costs]

Expenditure type	1983	1986		
		State-wide	On Oahu	On the Neighbor Islands
All items	85.88	95.40	92.92	114.18
Food and beverage	21.47	22.00	21.20	23.67
Restaurants	15.65	15.37	14.59	17.78
Nightclubs	1.41	1.80	2.11	1.12
Dinner shows	1.95	2.28	2.16	1.81
Groceries	2.46	2.55	2.34	2.96
Entertainment	5.10	7.74	7.91	10.41
Attractions	3.96	6.34	6.88	7.78
Other	1.14	1.40	1.03	2.63
Transportation	9.61	6.99	6.29	15.86
Ground transportation	1.44	1.01	0.97	0.66
U-drive	4.18	2.87	2.40	4.98
Interisland travel	2.73	1.90	1.51	8.88
Sightseeing tours	1.26	1.21	1.41	1.34
Clothing	7.18	8.06	8.57	6.07
Gifts and souvenirs	7.32	8.21	8.55	7.46
Lodging	29.94	36.60	34.43	44.94
All other	3.89	4.10	4.28	3.92
Adjustment 1/	1.37	1.70	1.69	1.85

1/ Estimated amount of underreporting for listed categories.

Source: Hawaii Visitors Bureau, 1986 Visitor Expenditure Survey (1987), pp. 12 and 13.

Table 228.-- EXPENDITURES PER VISITOR DAY BY WESTBOUND VISITORS, BY VISITOR OR TRIP CHARACTERISTICS: 1986

Visitor or trip characteristics	Dollars
All westbound visitors	95.40
Group tour:	
Organized tour group	95.45
Individually arranged	95.66
Accommodations:	
Hotel only	96.47
Condo only	89.81
Guests of friends, relatives	*60.76
Hotel/condo combination	90.86
Length of stay:	
1 to 6 days	99.55
7 to 12 days	96.38
13 to 18 days	92.06
19 days or longer	77.24
Residence: 1/	
Pacific	89.21
Mountain	87.50
W.N. Central	82.81
W.S. Central	101.74
E.N. Central	99.22
E.S. Central	*102.06
New England	109.83
Mid Atlantic	105.23
S. Atlantic	99.64
Canada	*80.14
Other foreign	*117.76
Previous visits:	
First trip	95.06
Repeat visitors	95.32
Party size:	
1 person	115.73
2 persons	92.09
3 persons	83.76
4 persons or more	78.21
Purpose of trip:	
Pleasure	93.91
Business	123.34
Business/pleasure	117.62
Government/military	*109.10
Visiting relatives	*78.69
School/college	*105.22
Convention	*107.98
Other	*120.64
Time of year:	
First quarter	97.04
Second quarter	92.06
Third quarter	100.11
Fourth quarter	92.35
Children in party:	
Yes	76.52
No	96.78

* Sample under 25; subject to considerable sampling variation.

1/ Census divisions; see source, p. 7.

Source: Hawaii Visitors Bureau, 1986 Visitor Expenditure Survey (1987), pp. 12-33.

Table 229.-- ESTIMATED EXPENDITURES BY VISITORS TO HAWAII, BY COUNTIES: 1970 TO 1986

[Millions of dollars. Interisland air fares have been distributed on a prorata basis. Expenditures by eastbound visitors have been included with the City and County of Honolulu. Excludes expenditures by Hawaii residents]

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
1970	595	442	153.0	53.4	45.1	54.5
1971	705	507	198.0	67.7	56.1	74.2
1972	840	609	231.0	77.0	61.9	92.1
1973	1,020	777	243.0	81.9	63.2	97.9
1974	1,225	928	297.5	99.3	73.9	124.3
1975	1,360	1,004	355.9	114.6	87.2	154.1
1976	1,640	1,213	427.2	126.8	101.8	198.6
1977	1,845	1,377	468.5	131.2	109.9	227.4
1978	2,146	1,569	577.0	152.9	137.9	286.9
1979	2,537	1,867	669.8	162.0	159.1	348.7
1980	2,875	2,097	777.5	187.6	189.3	400.6
1981	3,200	2,394	805.9	179.2	197.3	429.4
1982	3,700	2,748	951.8	200.9	210.6	540.3
1983	3,974	2,653	1,320.9	277.2	250.8	792.9
1984 1/ ...	4,582	2,895	1,686.6	248.9	359.4	1,078.3
1985 1/ ...	4,884	3,084	1,799.5	285.9	407.9	1,105.7
1986 1/ ...	5,500	3,444	2,056.2	343.8	516.9	1,195.5

1/ Preliminary estimate.

Source: Hawaii Visitors Bureau, "Neighbor Island Statistics," tabular release dated March 1987.

Table 230.-- ESTIMATED DIRECT VISITOR-RELATED EXPENDITURES: 1970 TO 1986

[In millions of dollars]

Year	Total	Visitors	Airline and ship crews	Overseas airlines 1/
1970	714.6	595	8.0	111.6
1971	835.8	705	8.0	122.8
1972	982.2	840	9.0	133.2
1973	1,181.6	1,020	8.0	153.6
1974	1,408.6	1,225	12.6	171.0
1975	1,559.4	1,360	8.4	191.0
1976	1,890.8	1,640	6.8	244.0
1977	2,093.8	1,845	7.8	241.0
1978	2,427.4	2,146	11.4	270.0
1979	2,947.7	2,537	11.6	399.1
1980	3,406.2	2,875	13.2	518.0
1981	3,775.0	3,200	15.0	560.0
1982	4,235.0	3,700	15.0	520.0
1983	4,483.0	3,974	14.0	495.0
1984	5,139.0	4,582	15.0	542.0
1985	5,458.0	4,900	16.0	542.0
1986	6,110.0	5,550	18.0	542.0

1/ Includes payroll, fuel taxes, and landing fees.

Source: Hawaii State Department of Planning and Economic Development, *The Economic Impact of Tourism in Hawaii: 1970 to 1980*, Research Report 1983-2 (April 1983), and unpublished 1981-1986 estimates based on the DBED Input-Output Model.

Table 231.-- ECONOMIC ACTIVITY GENERATED BY VISITOR-RELATED EXPENDITURES: 1970 TO 1986

Year	Visitor-related expenditures 1/ (million dollars)	Total sales or output 2/ (million dollars)	Household income (million dollars)	State and county tax revenues (million dollars)	Jobs 2/ (1,000)
1970	714.6	1,290.8	459.7	69.7	76.6
1971	835.8	1,507.0	538.6	82.8	87.3
1972	982.2	1,766.2	633.6	96.7	96.2
1973	1,181.6	2,122.0	763.5	118.7	105.6
1974	1,408.6	2,522.3	910.7	141.0	112.8
1975	1,559.4	2,751.7	995.9	165.7	113.5
1976	1,890.8	3,263.0	1,184.0	201.4	123.1
1977	2,093.8	3,642.9	1,324.9	225.0	127.3
1978	2,427.4	4,238.7	1,544.2	262.1	132.4
1979	2,947.7	5,005.0	1,826.8	316.7	143.3
1980	3,406.2	5,719.5	2,091.0	353.0	150.0
1981	3,775.0	6,265.2	2,294.1	390.1	154.4
1982	4,235.0	7,162.3	2,627.1	436.9	165.4
1983	4,483.0	7,587.9	2,788.9	461.6	166.2
1984	5,139.0	8,655.9	3,185.6	537.0	180.7
1985	5,458.0	9,210.9	3,390.2	578.8	186.5
1986	6,110.0	10,263.7	3,782.5	657.2	196.3

1/ Direct expenditures by visitors, airline and ship crews, and overseas airlines.

2/ Direct, indirect, and induced.

Source: Hawaii State Department of Planning and Economic Development, The Economic Impact of Tourism in Hawaii: 1970 to 1980, Research Report 1983-2 (April 1983), and revised 1970-1986 estimates based on the DBED Input-Output Model.

Table 232.-- ECONOMIC ACTIVITY GENERATED BY VISITOR-RELATED EXPENDITURES, BY INDUSTRY: 1986

Year and industry	Direct visitor-related expenditures 1/ (million dollars)	Total sales or output 2/ (million dollars)	Total household income (million dollars)	Jobs (1,000)	
				Total 3/	Direct only
All industries	6,110.0	10,263.7	3,782.5	196.3	108.9
Agriculture	35.5	78.5	34.8	0.6	0.3
Textile and apparel mfg.	51.8	91.7	31.6	2.6	1.6
Other manufacturing	153.6	301.1	79.9	5.0	1.6
Air transportation	485.8	855.0	276.9	13.8	6.2
Other transportation	188.0	387.3	148.5	3.7	1.9
Wholesale trade 4/	133.8	282.3	121.7	5.9	2.9
Eating and drinking places ...	1,163.9	2,269.6	686.7	47.7	27.7
Other retail trade 4/	529.0	1,137.3	529.0	32.2	21.1
Hotel services and real estate	1,756.1	3,916.1	1,492.7	60.3	31.2
Other services	458.7	945.0	380.7	24.4	14.5
Imports	1,153.8	-	-	-	-

1/ Direct expenditures by visitors, airline and ship crews, and overseas airlines.

2/ Direct, indirect, and induced sales.

3/ Direct, indirect and induced jobs.

4/ Expenditure figure refers to mark-up earned, not total sales revenue.

Source: Hawaii State Department of Business and Economic Development, unpublished estimates based on the DBED Input-Output Model.

Table 233.-- VISITOR INDUSTRY PRICE INDEXES: 1967 TO 1986

[1967 = 100]

Year	Vacation price index 1/	Hotel price index 1/	Airfare index 2/	Honolulu consumer price index 3/		
				Eating out 4/	Apparel, upkeep	All items
1967	100.0	100.0	100.0	100.0	100.0	100.0
1968	103.3	99.2	103.4	104.1	103.8	103.8
1969	108.9	102.4	119.3	111.6	109.4	108.5
1970	116.0	121.2	143.9	121.2	115.1	114.2
1971	119.1	117.6	143.9	126.9	117.6	118.9
1972	120.6	118.9	143.9	130.8	120.5	122.8
1973	124.7	119.9	148.8	139.0	124.1	128.3
1974	136.1	126.8	156.4	156.6	133.3	141.9
1975	150.1	141.1	162.0	178.7	141.2	155.0
1976	158.5	155.4	174.2	193.1	146.7	162.8
1977	169.2	169.6	174.2	204.5	152.2	171.0
1978	183.2	187.2	204.5	218.9	161.3	184.1
1979	201.3	211.5	219.7	236.1	171.7	204.6
1980	224.6	237.2	295.5	254.4	183.9	228.5
1981	(NA)	(NA)	386.4	277.8	193.4	252.4
1982	(NA)	(NA)	348.5	299.7	201.5	267.6
1983	(NA)	(NA)	378.4	314.1	207.7	273.5
1984	(NA)	(NA)	378.4	327.9	205.1	284.8
1985	(NA)	(NA)	340.5	340.9	203.9	294.1
1986	(NA)	(NA)	355.7	349.6	204.4	301.1

NA Not available.

1/ Annual averages. From Edwin Fujii, Mohammed Khaled, and James Mak, The Incidence and Exportability of Hotel Occupancy and Other Tourist Taxes in Hawaii (consultant report, July 1984), p. 47.

2/ July 1 data for one-way fares, including taxes, by Hawaiian Airlines jet aircraft (when available) between Honolulu and Kahului or Lihue. From DPED Statistical Report 103, table 2; Hawaii Visitors Bureau, 1983 Visitor Expenditure Survey, table 18; and present report, table 562.

3/ Annual averages. Beginning 1978, refers to CPI-U. From U.S. Bureau of Labor Statistics, CPI Detailed Report (monthly) and records.

4/ Food away from home.

Source: See above footnotes.

Table 234.-- HAWAII VISITORS BUREAU INCOME AND EXPENDITURES: 1981 TO 1986

[In dollars. Years ended June 30]

Year	Income				Expenditures
	Total	State appropriations 1/	Private subscriptions	Other 2/	
1981	3,337,771	2,052,727	941,542	343,502	3,285,624
1982	4,431,673	3,197,785	1,033,486	200,402	4,448,871
1983	4,484,734	3,216,000	966,146	302,588	4,485,156
1984	4,384,978	2,706,732	1,108,374	569,872	4,384,264
1985	5,345,724	4,009,391	1,125,914	210,419	5,347,648
1986	6,657,841	5,169,391	1,200,112	288,338	6,657,704

1/ Net after refunds (if any) to the State.

2/ May include income from Federal grants, mainland promotional programs, literature sales, convention servicing, and interest.

Source: Peat, Marwick, Mitchell & Co., Hawaii Visitors Bureau, Financial Statements and Schedules (annual).

Table 235.-- PASSPORTS ISSUED, BY FIRST AREA DESTINATION: 1982 TO 1986

Category and first area destination	1982	1983	1984	1985	1986
By Honolulu Passport Agency 1/	41,906	41,446	52,250	56,140	43,731
To Hawaii residents, total 2/	38,690	30,040	(NA)	(NA)	(NA)
Europe	14,860	15,720	(NA)	(NA)	(NA)
Far East	13,830	7,250	(NA)	(NA)	(NA)
Australia and Oceania	8,660	5,580	(NA)	(NA)	(NA)
All other areas	1,340	1,490	(NA)	(NA)	(NA)

NA Not available.

1/ Includes passports issued to nonresidents of Hawaii.

2/ Includes passports issued to Hawaii residents by out of State offices. These tabulations were discontinued after 1983.

Source: U.S. Department of State, Honolulu Passport Office, records.

Table 236.-- CHARACTERISTICS OF RESIDENTS RETURNING FROM THE MAINLAND: 1981 TO 1986

Year	Number returning	Oahu residents 1/ (percent)	Median age (years)	Males per 100 females	Persons per party
1981	230,728	83.8	37.3	101.6	1.44
1982	290,040	84.8	36.7	100.9	1.45
1983	236,725	84.7	36.5	102.2	1.45
1984	333,640	82.8	38.2	100.4	1.43
1985	403,450	82.1	39.2	100.5	1.43
1986	411,440	79.9	39.7	98.8	1.45

Year	Party heads with high-status occupations 2/ as percent of--		Days absent		Average number absent 3/
	All party heads	Employed civilian party heads	Median	Mean	
1981	54.5	78.7	13.3	17.3	10,900
1982	52.6	78.6	13.3	18.1	14,400
1983	51.3	78.4	12.8	17.2	11,200
1984	53.6	80.1	12.5	16.1	14,700
1985	56.2	82.0	12.2	15.3	16,900
1986	55.2	80.6	11.0	14.0	15,735

1/ Data for Oahu include persons specifying military bases rather than island of residence.

2/ Party heads reporting professional, technical, business, managerial, and official occupations.

3/ For persons absent 1 to 365 days.

Source: Hawaii State Department of Business and Economic Development, Out-of-State Travel by Hawaii Residents During 1986 (Statistical Report 202, September 22, 1987), table 2.

Table 237.-- NUMBER OF WESTBOUND RETURNING RESIDENTS AND AVERAGE ABSENCE-DAYS, BY PORT OF DEPARTURE: 1986

Port of departure	Number returning	Reporting absence of 1-90 days 1/	
		Persons	Average absence (days)
All returning residents	411,440	398,613	13.8
Los Angeles	124,180	119,819	13.7
San Francisco	102,486	99,816	14.4
New York/Los Angeles	30,720	29,963	14.6
Other/Los Angeles 2/	28,671	27,928	12.5
Chicago	26,220	25,767	15.6
Seattle	24,273	23,380	14.9
Las Vegas	22,829	21,816	4.8
Dallas	16,612	16,159	16.5
Other	35,449	33,965	14.7

1/ Excludes over 90 days or not reported.

2/ Includes other connecting flights through Los Angeles to Hawaii.

Source: Hawaii State Department of Business and Economic Development, Out-of-State Travel by Hawaii Residents During 1986 (Statistical Report 202, September 22, 1987), table 10.

Table 238.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS: 1984 TO 1986

[Calendar year data unless otherwise specified. Some 1984 and 1985 data have been revised]

Island and cultural attraction	1984	1985	1986
State total	12,570,047	12,963,102	13,394,693
Oahu	11,106,734	11,078,363	11,456,215
Bernice P. Bishop Museum 1/	224,482	257,760	278,083
Contemporary Arts Center	27,000	27,000	25,500
Damien Museum and Archives 2/	3,508	-	10,618
Dole Cannery tours 3/	127,229	138,860	154,964
Foster Botanic Garden	64,077	61,676	62,472
Fred Ohrt Museum	4,271	3,880	3,593
Hawaii Maritime Center 4/	8,000	45,000	105,000
Honolulu Academy of Arts 5/	235,615	274,950	280,842
Hoomaluhia Park	59,622	42,696	49,278
Iolani Palace State Monument 6/	65,000	71,000	72,000
Kamehameha V Post Office 6/	3,000	-	-
Kodak Hula Show	538,000	460,000	(NA)
Mission Houses Museum 7/	18,504	14,100	16,000
Mormon Temple Grounds (Church of Jesus Christ of Latter-Day Saints, Hawaii Temple Visitor's Center)	319,113	240,065	216,995
National Memorial Cemetery of the Pacific	4,394,458	4,453,063	5,122,003
Pacific Submarine Museum 8/	70,000	45,000	(NA)
Paradise Park	315,592	272,592	225,153
Polynesian Cultural Center	1,030,000	1,029,000	870,000
Puu o Mahuka Heiau State Monument 6/	21,000	11,000	11,000
Queen Emma Summer Palace	18,152	16,732	26,298
Royal Mausoleum State Monument 6/	79,000	74,000	76,000
Sea Life Park	617,500	655,000	684,530
Tennent Art Foundation Gallery	2,500	3,000	(NA)
Tropic Lightning Museum 9/	6,000	8,700	9,100
Ulu Po Heiau State Monument 6/	4,000	6,000	5,000
U.S. Army Museum, Ft. DeRussy	118,908	143,390	109,711
U.S.S. Arizona Memorial	1,715,047	1,629,660	1,809,080
Visiting either Memorial or Visitor Center	1,376,816	1,336,992	1,435,885
Aboard non-landing tour boats	338,231	292,668	373,195
U.S.S. Bowfin WWII Submarine Exhibit	224,684	254,053	284,202
Wahiawa Botanic Garden	20,225	18,711	17,245
Waikiki Aquarium 10/	295,760	322,796	330,071
Waimea Falls Park	476,487	498,679	601,477

Continued on next page.

Table 238.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS: 1984 TO 1986 -- Con.

Island and cultural-attraction	1984	1985	1986
Hawaii	563,305	561,328	626,747
Hawaii Tropical Botanical Gardens 11/ ...	4,000	20,000	32,000
Greenwell Store Museum 12/	400	2,500	5,000
Hulihee Palace	23,501	21,469	21,350
Kamuela Museum	18,000	16,000	16,000
Kealakekua Bay State Historical Park 13/	-	26,000	36,000
Kilauea Visitor Center	433,144	381,346	425,198
Lapakahi State Historical Park 6/	68,000	73,000	71,000
Lyman House Memorial Museum	16,260	21,013	20,199
Maui	354,502	807,670	808,498
Halekii-Pihana Heiaus State Monument 6/ .	53,000	57,000	50,000
Kula Botanical Gardens 14/	24,800	21,995	22,540
Lahaina Restoration Foundation	119,327	162,988	167,724
Baldwin Home Museum	41,333	43,414	43,454
Brig *Carthaginian*	68,203	73,201	76,835
Hale Pa'i	7,691	8,461	7,615
Wo Hing Temple 15/	2,100	37,912	39,820
Maui Historical Society Museum	7,711	15,687	18,234
Maui Plantation 16/	149,664	550,000	550,000
Kauai	533,006	493,700	496,496
Grove Farm Homestead	4,420	4,664	4,901
Hanalei Museum 17/	6,000	6,500	6,500
Kauai Museum 18/	20,102	20,248	25,345
Kokee Natural History Museum	72,299	83,424	83,485
Olu Pua Gardens	(NA)	4,800	6,696
Pacific Tropical Botanical Garden	2,496	5,229	6,899
Russian Fort Elizabeth State Historical Park 19/	425,000	375,000	359,000
Waioli Mission House	5,185	3,864	3,670
Molokai	10,004	12,012	6,737
Kalaupapa Settlement	10,004	12,012	6,737

NA Not available.

1/ Years ended June 30. Excludes *Falls of Clyde* Maritime Museum, operated by the Bishop Museum until November 1, 1983 but listed separately in this table.

2/ Closed part of 1984 and most of 1985; reopened February 11, 1986.

3/ 1984 and 1985 figures refer to year ended June 30.

4/ Includes *Falls of Clyde* (60,000 in 1986) and Aloha Tower Maritime Museum (45,000 in 1986).

5/ Includes Academy Theatre (52,458 in 1984, 81,617 in 1985, and 85,697 in 1986).

Continued on next page.

Table 238.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS: 1984 TO 1986 -- Con.

6/ Years ended June 30.
7/ Years ended September 30.
8/ Scheduled to close June 30, 1987.
9/ Closed three months in 1984.
10/ Includes both adult (236,466 in 1986) and child (93,605) attendance.
11/ Opened August 1984.
12/ Opened September 10, 1984.
13/ Beginning October 1984.
14/ 1982, 23,600; 1983, 28,500.
15/ New site opened December 17, 1984, after one-year restoration.
16/ Opened (as Hawaii Tropical Plantation) August 4, 1984.
17/ Closed November 23, 1982 to June 1984.
18/ Years ended September 30, 1984 and December 31, 1985 and 1986.
19/ Years ended June 30. Attendance estimates reflect heavy use of restrooms by tour bus passengers.

Source: Hawaii State Department of Planning and Economic Development, *Attendance at Museums and Other Attractions, 1986* (Statistical Memorandum 87-2, June 22, 1987), table 3.

Table 239.-- ATTENDANCE AT MUSEUMS AND OTHER ATTRACTIONS: 1976 TO 1986

Year	Number of attractions	Attendance (1,000)	Year	Number of attractions	Attendance (1,000)
1976 ..	32	7,480	1982 ..	46	12,520
1977 ..	33	8,794	1983 ..	47	12,474
1978 ..	32	9,504	1984 ..	51	12,570
1979 ..	37	10,539	1985 ..	51	12,963
1980 ..	40	10,314	1986 ..	49	13,395
1981 ..	45	10,237			

Source: Hawaii State Department of Planning and Economic Development, *Attendance at Museums and Other Attractions, 1986* (Statistical Memorandum 87-2, June 22, 1987).

Table 240.-- HONOLULU SYMPHONY ORCHESTRA: 1976-1977 TO 1986-1987

Season	Average number of orchestra personnel	Number of performances	Total attendance	Operating expenses (dollars)
1976-1977	80	136	200,000	1,654,050
1977-1978	75	109	194,474	1,980,720
1978-1979	75	118	192,413	2,398,020
1979-1980	75	122	186,135	2,189,172
1980-1981	80	107	155,622	2,211,082
1981-1982	80	109	168,900	2,627,293
1982-1983	80	142	204,193	2,817,196
1983-1984	80	133	194,600	2,562,500
1984-1985	80	120	167,500	2,966,700
1985-1986	80	137	208,370	3,053,257
1986-1987 1/ ..	80	85	139,703	2,394,804

1/ Reflects musicians' strike, Aug. 8-Nov. 26, 1986.

Source: Hawaii State Department of Planning and Economic Development, The Performing Arts, 1985-1986 (Statistical Memorandum 87-1, February 25, 1987), table 3, and Honolulu Symphony Society, records.

Table 241.-- PERFORMING ARTS STATISTICAL SUMMARY, FOR OAHU: 1977-1978 TO 1985-1986 SEASONS

Season	Number of groups reporting	Productions	Performances	Attendance
1977-1978	12	254	1,513	850,802
1978-1979	12	219	1,024	766,018
1979-1980	12	183	1,178	723,581
1980-1981	13	254	1,128	830,585
1981-1982	12	500	1,300	804,647
1982-1983	13	502	1,376	936,821
1983-1984	13	695	1,734	1,060,367
1984-1985	12	773	1,809	1,086,930
1985-1986	12	353	1,245	845,328

Source: Hawaii State Department of Planning and Economic Development, The Performing Arts, 1985-1986 (Statistical Memorandum 87-1, February 25, 1987), table 1.

Table 242.-- PERFORMING ARTS, FOR OAHU: 1985-1986 SEASON

Name of organization and type of performance	Productions	Performances	Attendance
All reporting groups	353	1,245	845,328
Brigham Young University - Hawaii Campus	15	20	6,987
Chaminade University of Honolulu	1	4	600
Hawaii Loa College	2	8	560
Hawaii Performing Arts Company	6	66	15,238
Honolulu Community Theatre	8	130	46,000
Honolulu Department of Auditoriums, total	125	210	397,403
Ballets	4	12	13,814
Concerts	89	112	213,309
Operas	3	9	15,282
Rock shows	7	8	46,180
Other dramatic and musical productions	22	69	108,818
Honolulu Theatre for Youth	6	293	130,502
Leeward Community College	60	164	53,869
U.S. Army Support Command, total	108	214	152,212
Plays, musicals and workshops	9	58	5,598
Showmobile activities	26	26	85,233
DOD/USO touring shows	10	37	6,063
Richardson Performing Arts Center	12	42	32,474
Soldier bands and jam sessions	43	43	1,600
Special events	8	8	21,244
University of Hawaii at Manoa	16	102	38,832
Windward Community College	2	4	125
Windward Theater Guild	4	30	3,000

Source: Hawaii State Department of Planning and Economic Development, The Performing Arts, 1985-1986 (Statistical Memorandum 87-1, February 25, 1987), table 2.

Table 243.-- RECREATIONAL FACILITIES AND RESOURCES, BY COUNTIES: 1985

Recreation area/facility	State total	Kauai	Honolulu	Maui	Hawaii
Recreation area:					
Total acreage	1,572,891	137,192	59,400	249,656	1,126,643
Unimproved acreage	1,563,753	136,274	53,527	248,898	1,125,055
Improved acreage	9,138	918	5,873	758	1,588
Passive	3,334	275	2,057	254	747
Active	5,033	611	3,259	437	726
Service	772	32	558	67	115
Aquatic:					
Boat launch lanes	79	10	37	10	22
Boat moorages	2,750	95	2,053	254	348
Swimming pools	77	6	58	6	7
Beach acreage	490	101	306	49	34
Beach length (in miles) .	56	11	34	6	5
Wild shoreline (in miles)	39	1	1	2	35
Nonstructured/land based:					
Camping sites	2,065	339	499	403	824
Public hunting (in acres)	1,282,458	102,517	26,032	192,804	961,105
Court, courses fields, and playgrounds:					
Golf courses (holes)	1,038	144	441	219	234
Tennis courts	638	100	360	75	103
Sport fields	453	51	324	46	32
Sport courts	683	38	551	43	51
Trails:					
Hiking/equestrian (in miles)	1,112	206	78	167	661
Bikeways (in miles)	66	1	38	27	0

Source: Hawaii State Department of Land and Natural Resources, State Recreation Functional Plan Technical Reference Document and State Comprehensive Outdoor Recreation Plan (SCORP) (December 1985), p. 27.

Table 244.-- PEAK-DAY RESIDENT AND VISITOR PARTICIPATION IN SPECIFIED RECREATION ACTIVITIES: 1980

[Based on a survey conducted in the late summer of 1978 and projections of resident population and average visitor census for 1980. The data refer to the day of the week on which the greatest combined participation by residents and visitors occurs for the specified activity]

Activity	Activity occasions 1/		Percentage participation	
	State total	Oahu only	Residents	Visitors
All activities	986,430	737,417	--	--
Walking	240,434	191,201	23	31
Jogging	73,068	62,181	9	2
Hiking	15,709	10,413	2	2
Camping	20,809	16,130	3	1
Group camping	3,804	913	0	0
Picnicking	84,716	58,447	10	3
Hunting	1,502	234	0	0
Golf	15,681	11,714	2	2
Swim or sunbathing	171,525	123,616	16	26
Diving	20,875	13,483	2	3
Surfing	22,608	15,587	2	3
Boating	18,563	13,547	3	3
Canoe paddling	3,233	1,786	0	0
Fishing	24,875	17,322	3	1
Field games	32,404	27,065	4	0
Court games	19,070	15,891	2	0
Playground equipment	14,928	11,175	2	0
Tennis	18,106	12,749	2	2
Outdoor events	19,071	15,562	2	3
Bicycling	74,909	54,403	9	0
Motorcycling	8,722	6,719	1	1
Other activities	22,606	18,008	3	0
Sightseeing	59,212	39,271	3	18

1/ An activity occasion is a peak-day participation in that activity by a member of a resident household or visitor party.

Source: Hawaii State Department of Land and Natural Resources, State Recreation Functional Plan, Technical Reference Document and State Comprehensive Outdoor Recreation Plan (SCORP), (December 1985), pp. 32-34.

Table 245.-- NATIONAL PARKS: 1976 TO 1986

Year and area	Acreage, Dec. 31 1/			Visits 2/
	Total	Federal	Non-federal	
1976	235,274	235,208	66	2,895,840
1977	235,274	235,208	66	2,932,555
1978	236,574	235,208	1,366	3,572,504
1979	236,574	235,208	1,366	3,384,343
1980	247,488	235,243	12,245	3,479,797
1981	247,488	235,243	12,245	4,225,217
1982	247,488	235,243	12,245	4,950,621
1983	247,349	235,243	12,106	5,252,385
1984	247,349	235,243	12,106	5,429,289
1985	247,349	235,243	12,106	4,029,929
1986	247,349	235,565	11,784	4,736,281
AREAS: 1986				
Hawaii Volcanoes National Park	207,643	207,643	-	1,507,242
Haleakala National Park	27,350	27,350	-	1,304,330
Puuhonua o Honaunau National Historical Park	181	181	-	432,400
Kaloko-Honokohau National Historical Park	1,161	322	839	(3/)
Puukohola Heiau National Historic Site	100	34	66	56,424
U.S.S. Arizona Memorial 4/	12	12	-	1,435,885
Kalaupapa National Historical Park	10,902	23	10,879	(NA)

NA Not available.

1/ Data exclude the Olaa Forest Tract. This 9,654-acre tract is entirely in Federal ownership, is managed by the National Park Service, and has been designated as part of the wilderness system by the Congress, but it is not within the legally authorized boundary of Hawaii Volcanoes National Park.

2/ Decline in 1985 reflects use of new benchmark data for Hawaii Volcanoes National Park estimates. At the end of 1985, the NPS resurveyed vehicles at Hawaii Volcanoes, and found that what had in the past been a three to one ratio in the number of buses as compared to cars had reversed in favor of cars. Consequently, the multiplier factor used to count vehicles was adjusted downward from 5.7/vehicle to 2.39/vehicle for recreation visits and from 2.18/vehicle to 1.92/vehicle for non-recreation visits.

3/ Not yet open to the public.

4/ The U.S.S. Arizona Memorial is wholly within the Pearl Harbor Naval Base. The acreage figure is the approximate extent of the total area over which the National Park Service has been granted use rights by the U.S. Navy.

Source: U.S. Department of the Interior, National Park Service, Pacific Area Office, records.

Table 246.-- STATE PARKS AND HISTORIC SITES: 1977 TO 1987

Year and island	Number of areas, June 30	Acreage, June 30		Recreation visits, year ended June 30 (1,000)
		Total	Developed	
1977	58	20,151	681.8	18,864
1978	64	20,295	706.8	15,966
1979	65	20,625	880.0	17,911
1980	66	20,637	916.7	17,169
1981	71	20,836	937.8	15,611
1982	72	20,885	937.8	18,111
1983	74	20,564	980.1	17,246
1984	74	24,751	979.1	19,406
1985	74	24,799	882.1	19,908
1986	74	24,865	882.1	19,680
1987	76	24,909	883.6	20,068
ISLANDS: 1986				
Hawaii	18	1,364.8	280.4	4,894
Maui	12	318.2	56.3	3,771
Molokai	1	233.7	10.0	188
Oahu	32	9,164.6	392.5	4,491
Kauai	11	13,783.7	142.9	6,336
ISLANDS: 1987				
Hawaii	19	1,364.8	280.4	5,471
Maui	12	327.4	56.3	3,709
Molokai	1	233.7	10.0	184
Oahu	33	9,199.8	392.5	4,438
Kauai	11	13,783.7	142.9	6,266

Source: Hawaii State Department of Land and Natural Resources, Division of State Parks, Outdoor Recreation and Historic Sites, records.

Table 247.-- MAJOR STATE PARKS: 1986 AND 1987

[Parks having at least 800,000 recreation visits or 1,000 acres]

Park	Acreage, June 30		Recreation visits, year ended June 30 (1,000)
	Total	Developed	
1986			
Wailua River State Park 1/	1,125.9	50.4	3,114
Hapuna Beach State Recreation Area	61.1	20.0	1,270
Nuuanu Pali State Wayside	2.5	2.5	1,156
Old Kona Airport State Recreation Area	117.8	20.4	1,094
Waimea Canyon State Park	1,866.4	10.0	978
Kokee State Park	4,345.0	55.0	947
Iao Valley State Monument	6.2	5.9	800
Na Pali Coast State Park	6,175.0	4.0	51
Kahana Valley State Park	5,220.3	20.0	28
Sacred Falls State Park	1,374.2	10.0	25
1987			
Wailua River State Park 1/	1,125.9	50.4	3,145
Hapuna Beach State Recreation Area	61.1	20.0	1,312
Nuuanu Pali State Wayside	2.5	2.5	1,172
Old Kona Airport State Recreation Area	117.8	20.4	1,020
Iao Valley State Monument	6.2	5.9	1,008
Waimea Canyon State Park	1,866.4	10.0	905
Kokee State Park	4,345.0	55.0	870
Wailuku River State Park	16.3	3.5	836
Sand Island State Recreation Area	140.0	83.0	832
Na Pali Coast State Park	6,175.0	4.0	62
Kahana Valley State Park	5,220.3	20.0	27
Sacred Falls State Park	1,374.2	10.0	21

1/ Seven separate areas in both 1986 and 1987.

Source: Hawaii State Department of Land and Natural Resources, Division of State Parks, Outdoor Recreation, and Historic Sites, records.

Table 248.-- NATIONAL AND STATE HISTORIC SITES, BY ISLANDS: 1985

Island	Total sites 1/	Listed Hawaii Register only	Listed and recommended for National Register 2/	Listed National Register only	Listed both Hawaii and National Register	Eligible for Nat'l Register 3/
State total	376	90	40	92	119	37
Hawaii	87	36	2	18	23	9
Kauai	45	12	4	5	19	5
Kahoolawe .	1	-	-	1	-	-
Lanai	1	-	-	1	-	-
Maui	34	19	1	5	8	1
Molokai ...	55	14	14	2	24	2
Oahu	153	9	19	60	45	20

1/ Total sites listed in the source, as adjusted for appearance of some sites on more than one list.

2/ Sites placed on the Hawaii Register of Historic Places by the Historic Places Review Board but not yet approved by either the State Historical Preservation Officer or the National Historical Places Review Board.

3/ Sites declared eligible for National Register listing by the National Board.

Source: Hawaii State Department of Land and Natural Resources, State Parks, Outdoor Recreation, and Historic Sites Division, Hawaii Historic Places Review Board, Hawai'i/National Registers of Historic Places (February 1985).

Table 249.-- COUNTY PARKS, BY ISLANDS: 1982 TO 1986

[As of December 31]

Subject	1982	1983	1984	1985	1986
Number, total	548	547	551	551	560
Hawaii	134	135	135	134	141
Maui	82	79	80	80	82
Lanai	2	3	3	3	3
Molokai	10	10	11	11	11
Oahu	264	264	266	266	266
Kauai	56	56	56	57	57
Acreage, total	8,177	8,238	8,248	8,222	8,227
Hawaii	1,445	1,460	1,463	1,434	1,424
Maui	921	899	899	899	905
Lanai	5	7	7	7	7
Molokai	51	51	54	54	54
Oahu	5,235	5,238	5,242	5,242	5,251
Kauai	520	583	583	586	586

Source: Compiled by the Hawaii State Department of Planning and Economic Development from data provided by County parks and recreation departments.

Table 250.-- ZOOS: 1984 TO 1986

Subject and zoo	1984	1985	1986
Species: 1/			
Coco Palms (Kauai)	6	6	8
Honolulu Zoo	305	278	289
Maui Zoological & Botanical Gardens .	42	40	38
Molokai Ranch Wildlife Park	11	9	7
Panaewa Rainforest Zoo (Hilo)	52	53	53
Individuals: 1/			
Coco Palms (Kauai)	75	68	68
Honolulu Zoo	1,120	1,071	1,037
Maui Zoological & Botanical Gardens .	163	152	147
Molokai Ranch Wildlife Park	463	504	855
Panaewa Rainforest Zoo (Hilo)	173	182	160
Attendance:			
Coco Palms (Kauai)	3,331	5,423	6,142
Honolulu Zoo	703,535	782,866	801,418
Maui Zoological & Botanical Gardens .	87,000	80,000	80,000
Molokai Ranch Wildlife Park	3,000	4,500	8,029
Panaewa Rainforest Zoo (Hilo)	36,040	39,949	53,212

1/ Animal and bird inventory, December 31.

Source: Data obtained by Hawaii State Department of Planning and Economic Development from Coco Palms Resort Hotel, Molokai Ranch Wildlife Park, and the parks and recreation departments of the City and County of Honolulu and counties of Hawaii and Maui.

Table 251.-- ATTENDANCE AND WATER SAFETY AT GUARDED BEACH PARKS, FOR THE CITY AND COUNTY OF HONOLULU: 1986 AND 1987

[Years ended June 30]

Subject	1986	1987
Approximate attendance, total 1/ (1,000) .	14,801	16,975
Ala Moana	1,659	1,397
Waikiki	7,503	6,319
Hanauma Bay	2,038	3,564
Sandy Beach	491	741
Kailua	391	648
Waimea Bay	510	860
Makaha	462	742
Rescues	1,273	1,899
First aid: Minor	28,496	21,861
Major	823	1,173
Drownings	11	10

1/ Based on headcounts taken at approximately two-hour intervals by Water Safety Officers over an 8-hour work day. Data shown separately for beach areas over 500,000 in either 1986 or 1987.

Source: City and County of Honolulu, Department of Parks and Recreation, records.

Table 252.-- COUNTY TENNIS FACILITIES: 1983 TO 1986

[As of December 31]

Island	Locations				Courts			
	1983	1984	1985	1986	1983	1984	1985	1986
State total ...	86	88	89	89	259	265	271	274
Hawaii	21	21	21	20	45	45	45	44
Maui	12	12	12	12	32	32	34	34
Lanai	1	1	1	1	2	2	2	2
Molokai	1	1	1	1	2	2	2	2
Oahu	41	43	44	45	154	160	164	168
Kauai	10	10	10	10	24	24	24	24

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the county departments of parks and recreation.

Table 253.-- COUNTY GOLF COURSES AND CAMPING PERMITS, FOR OAHU: 1981 TO 1986

Calendar year	Public golf courses			Camping permits issued 1/
	Courses	Holes	Rounds played	
1981	4	63	461,543	5,989
1982	4	63	447,782	6,412
1983	4	63	494,610	7,462
1984	4	63	484,691	8,062
1985	4	63	484,594	6,937
1986	4	63	536,204	8,049

1/ By the City and County of Honolulu.

Source: City and County of Honolulu, Department of Parks and Recreation, records.

Table 254.-- GOLF COURSES, BY ISLANDS: 1984

Island and type of operation	Number of courses				Number of holes
	Total	9-hole	18-hole	27-hole	
State total ..	57	12	44	1	927
Hawaii	11	2	9	-	180
Public 1/	4	2	2	-	54
Municipal	1	-	1	-	18
Resort	6	-	6	-	108
Maui	10	2	8	-	162
Private	1	1	-	-	9
Public 1/	1	1	-	-	9
Municipal	1	-	1	-	18
Resort	7	-	7	-	126
Lanai	1	1	-	-	9
Public 1/	1	1	-	-	9
Molokai	2	1	1	-	27
Public 1/	1	1	-	-	9
Resort	1	-	1	-	18
Oahu	28	5	23	-	459
Private	4	-	4	-	72
Public 1/	8	1	7	-	135
Municipal	4	1	3	-	63
Military	9	3	6	-	135
Resort	3	-	3	-	54
Kauai	5	1	3	1	90
Public 1/	1	1	-	-	9
Municipal	1	-	1	-	18
Resort	3	-	2	1	63

1/ Privately owned courses open to the public on daily-fee basis.

Source: Bill Gee, 1984 Hawaiian Golf Almanac (Hawaii Junior Golf Association), pp. 3 and 8.

Table 255.-- HAWAIIAN OPEN SCORES AND PURSES: 1982 TO 1987

[The Hawaiian Open is held at the Waialae Country Club golf course. Distance is 6,975 yards; par is 72. For annual data back to 1965, see Data Book 1986, table 247]

Year	Winning score		Purse (dollars)	
	Total	Below par	Total	Winner
1982	277	11	325,000	58,500
1983	268	20	325,000	58,000
1984	*271	17	500,000	90,000
1985	267	21	500,000	90,000
1986	272	16	500,000	90,000
1987	*270	18	600,000	108,000

* Sudden-death playoff.

Source: Sunday Star-Bulletin and Advertiser, February 1, 1987, p. D-13; Honolulu Advertiser, February 9, 1987, p. F-1.

Table 256.-- FISHING AND HUNTING LICENSES ISSUED: 1982 TO 1987

[Years ended June 30]

Type of license	1982	1983	1984	1985	1986	1987
Freshwater game fishing ..	8,526	8,720	9,866	7,131	8,200	8,669
Hunting	11,935	11,959	12,107	12,599	12,776	12,748

Source: Hawaii State Department of Land and Natural Resources, Division of Conservation and Resources Enforcement, records.

Table 257.-- PUBLIC HUNTING AREAS AND WILDLIFE SANCTUARIES AND REFUGES, BY ISLANDS: FEBRUARY 1986

Island	Public hunting areas		National Wildlife Refuges 1/		Other wildlife sanctuaries and refuges	
	Number	1,000 acres	Number	1,000 acres	Number	1,000 acres
State total	61	1,026.2	6	256.0	11	80.6
Hawaii	26	727.9	-	-	4	79.5
Maui	7	102.5	-	-	2	0.1
Lanai	1	35.6	-	-	-	-
Molokai	3	27.5	1	0.0	-	-
Oahu	13	26.0	2	0.2	5	0.7
Kauai	11	106.7	3	1.2	-	-
Other islands	-	-	1	254.6	(2/)	0.3

1/ U.S. Fish and Wildlife Service.

2/ The Hawaii State Seabird Sanctuary is comprised of 36 islets offshore all major islands, including Kure Atoll in the Northwestern Hawaiian Islands. This sanctuary is administered out of the Oahu District office.

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, records.

Table 258. -- FISHING AND HUNTING CHARACTERISTICS OF PERSONS 16 YEARS AND OVER, BY RESIDENT STATUS: 1980

Activity and characteristic	Resident in-State	Nonresident in-State	Resident out-of-State
FISHING			
Participants	153,200	90,700	15,100
Freshwater	16,400	13,100	8,600
Saltwater	149,400	90,000	7,500
Deep sea	25,900	37,400	500
Surf and shore	132,300	46,300	3,100
Sounds, bays, tidal inlets, streams	4,400	6,900	5,100
Participants as percent of population	21.7	(X)	2.1
Days of participation	3,017,900	257,700	242,700
Per fisherman	19.7	2.8	16.1
HUNTING			
Participants	17,300	11,100	3,300
Deer	2,400	-	900
Wild turkey	1,800	-	400
Feral goat	9,100	5,700	-
Feral sheep	3,900	-	-
Feral pigs	10,600	4,900	-
Quail	3,500	9,900	500
Pheasant	7,500	9,900	400
Partridge	2,700	-	400
Migratory birds	2,300	5,500	200
Participants as percent of population	2.4	(X)	0.5
Days of participation	301,800	40,100	34,700
Per hunter	17.4	3.6	10.6

X Not applicable.

Source: U.S. Fish and Wildlife Service and U.S. Bureau of the Census, 1980 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation, Hawaii.

Table 259.-- WATER RECREATION FACILITIES AND RESOURCES, BY ISLANDS: 1986

Island	Small craft mooring facilities capacity 1/		Miles of sandy shoreline 2/		Number of surfing sites 3/
	Catwalks and piers	Other mooring areas	Total	Primary 4/	
Six major islands .	1,365	690	184.9	24.4	1,600
Hawaii	29	307	19.4	1.2	185
Maui	53	146	32.6	7.9	212
Lanai	28	-	18.2	-	99
Molokai	3	29	23.2	-	180
Oahu	1,198	167	50.3	12.5	594
Kauai	54	41	41.2	2.8	330

1/ As of December 31, 1986.

2/ Surveyed in 1962.

3/ Surveyed in 1971. A surfing site is defined as "a specific wave-breaking zone caused by a shoal and having sufficient consistency to be identified as a surfable riding area, either seasonally or in a combination of seasons, e.g., Queen's Surf, Waikiki."

4/ Safe, clean, accessible, and generally suitable for swimming.

Source: Hawaii State Department of Transportation, Harbors Division, Small Craft Mooring Facilities Utilization Report (quarterly); Hawaii State Department of Planning and Economic Development, Hawaii's Shoreline (1965), p. 7; Surfing Education Association, The 1971 Statewide Surfing Site Survey, Vol. 1, p. 93.

Table 260.-- TRANSPACIFIC YACHT CLUB'S HONOLULU RACE ENTRIES AND WINNING TIMES: 1977 TO 1987

[The Honolulu Race, sponsored by the Transpacific Yacht Club of Los Angeles, is run biennially between San Pedro, California, and Diamond Head Lighthouse, a great circle distance of 2,217 nautical miles]

Year	Boats entered	Winning times (days, hours, minutes, seconds)	
		Elapsed	Corrected
1977	66	8:11:01:45	8:11:29:24
1979	80	11:18:01:04	11:14:42:51
1981	70	8:11:02:31	7:21:44:48
1983 1/ ...	66	9:01:53:48	7:22:55:15
1985	65	13:06:31:19	9:14:07:40
1987	55	8:12:00:40	8:00:56:41

1/ A catamaran, not officially entered in the race, recorded an elapsed time of 7:7:30:56.

Source: Jack Smock, Transpac, A History of the Great Race to Honolulu ... (1980), pp. 470, 497-498, 521-522, 552, and 669; The Transpacific Yacht Club, 1982-83 Transpacific Yacht Club Year Book (1983); Honolulu Advertiser, July 12, 1983, p. B-1, July 4, 1985, p. E-3, and July 19, 1985, p. G-3; Honolulu Star-Bulletin, July 15, 1983, p. C-3; Sunday Star-Bulletin and Advertiser, July 10, 1983, p. F-1; Waikiki Yacht Club, records.

Table 261.-- YACHT RACING EXPENDITURES IN HAWAII, FOR MAJOR RACES: 1984 AND 1985

[$1,000. All four races are sailed at biennial intervals]

Category	2-year total	Trans-pac: 1985 1/	Victoria-Maui: 1984 2/	Kenwood Cup: 1984 3/	Pacific Cup: 1984 4/
Total expenditures	10,909	2,365	2,237	13,264	1,043
Direct expenditures	10,867	1,359	1,286	7,623	599
Administrative costs	639	15	12	607	5
Yacht services 5/	1,345	259	97	926	62
Miscellaneous expend. 6/ .	8,883	1,085	1,176	6,090	532
Indirect expenditures 7/...	8,042	1,006	951	5,641	444

1/ Transpacific Yacht Race, Los Angeles to Honolulu. First sailed 1906.

2/ Victoria, B.C., to Lahaina, Maui. First sailed 1965.

3/ Around the State. First sailed, as Royal Hawaiian Cup, in 1972; as Clipper Cup, 1978; as Hawaii International Ocean Racing Series (Kenwood Cup) after 1984.

4/ San Francisco to Nawiliwili, Kauai. First sailed 1980.

5/ Provisions, yacht delivery, etc.

6/ By crew members, family members, and associates.

7/ Secondary and tertiary effects that the races have on the State's economy.

Source: Mike Markrich, Yacht Racing Expenditures in Hawaii (University of Hawaii Sea Grant College Program and DPED Ocean Resources Branch, June 1986).

Table 262.-- TRIATHLON, OCEAN SWIM, AND BIATHLON EXPENDITURES, BY TYPE: 1985

Type of event	Events	Expenditures ($1,000)			
		Direct and in-direct	Direct 1/		Indir-ect 2/
			Total	Race organi-zation	
Total	35	9,522	5,566	1,015	3,956
Triathlons	13	9,264	5,324	960	3,940
Ironman 3/	1	7,533	4,329	825	3,204
Others	12	1,731	995	135	736
Ocean swims	13	236	220	34	16
Biathlons	9	22	22	22	-

1/ Includes race organization expenditures, athletes' and dependents' living expenses, athletes' race-related expenditures, and media expenses.

2/ Secondary and tertiary expenditure effects on State's economy.

3/ Bud Light Ironman Triathlon World Championship.

Source: Mike Markrich, Triathlons, Ocean Swims, and Biathlons in Hawaii, Expenditures for 1985 (University of Hawaii Sea Grant College Program and Ocean Resources Branch, Hawaii State Department of Planning and Economic Development, September 1986).

Table 263.-- IRONMAN TRIATHLON WORLD CHAMPIONSHIP REGISTRANTS, FINISHERS, AND WINNING TIMES: 1978 TO 1987

Year	Number of registrants	Number of finishers	Winning time (hr., min., sec.)	
			Men	Women
1978	15	12	11:46:58	--
1979	15	12	11:15:56	12:55:38
1980	108	94	9:24:33	11:21:24
1981	326	299	9:38:29	12:00:32
1982 (Feb.) ..	580	541	9:19:41	11:09:40
1982 (Oct.) ..	850	775	9:08:23	10:54:08
1983	964	838	9:05:57	10:43:36
1984	1,036	903	8:54:20	10:25:13
1985	1,018	965	8:50:54	10:25:22
1986	1,039	951	8:28:37	9:49:14
1987	1,381	1,286	8:34:13	9:35:25

Source: Bud Light Ironman Triathlon World Championship, February 19, 1987, and records.

Table 264.-- HONOLULU MARATHON REGISTRANTS, FINISHERS AND WINNING TIMES: 1982 TO 1987

Year	Number of registrants	Number of finishers	Winning time (hr., min., sec.)	
			Men	Women
1982	12,275	10,023	2:15:30	2:41:10
1983	10,847	8,434	2:20:18	2:41:25
1984	10,653	8,166	2:16:25	2:42:49
1985	9,310	8,287	2:12:08	2:35:51
1986	10,354	8,563	2:11:43	2:31:01
1987	10,413	8,793	2:18:26	2:35:11

Source: Honolulu Marathon Association, records.

Table 265.-- PROFESSIONAL BASEBALL (HAWAII ISLANDERS): 1985 TO 1987

[The Hawaii Islanders were members of the Pacific Coast League for 27 seasons. They played their first league game April 20, 1961 and their final game September 1, 1987].

Season	Games						Home dates	
	Number played	Won	Lost	Tied	Percent won	Ahead or behind	Number	Attendance
1985:								
First half	71	42	29	-	.592	+4.5	32	50,885
Second half ...	72	42	30	-	.583	-1	30	83,979
Div. playoffs .	3	-	3	-	.000	-3	1	2,281
1986:								
First half	72	32	40	-	.444	-11.5	32	40,561
Second half ...	72	33	39	-	.458	-11	28	44,100
1987:								
First half ...	71	34	36	1	.486	-9	29	57,929
Second half ..	71	31	39	1	.443	-6	32	58,178

Source: Ferd Borsch, Hawaii Islanders scorer, records.

Table 266.-- TOTAL ATTENDANCE AT FOOTBALL BOWL GAMES: 1982-1983 TO 1986-1987 SEASONS

Bowl	1982-1983	1983-1984	1984-1985	1985-1986	1986-1987
Aloha Bowl	30,002	37,212	37,996	30,574	20,666
Hula Bowl	39,456	26,829	25,890	20,943	17,775
Pro Bowl	49,883	47,482	48,124	47,906	46,799

Source: Hawaii State Department of Accounting and General Services, Stadium Authority, records.

Table 267.-- VARSITY SPORTS AT THE UNIVERSITY OF HAWAII-MANOA: 1980-1981 TO 1986-1987

[Data limited to games played against four-year collegiate teams]

Sport and school year	All games			Home games	
	Won	Lost	Tied	Home dates	Attendance
Baseball: 1/					
1980-1981	50	16	-	38	40,972
1981-1982	59	17	-	42	63,846
1982-1983	47	20	-	36	51,133
1983-1984	48	22	1	42	104,177
1984-1985	56	31	-	61	106,526
1985-1986	43	24	-	42	114,367
1986-1987	45	19	-	42	105,646
Basketball: 2/					
1980-1981	14	13	-	18	83,785
1981-1982	17	10	-	19	73,869
1982-1983	17	11	-	18	72,343
1983-1984	12	16	-	16	59,239
1984-1985	10	18	-	19	75,070
1985-1986	4	24	-	18	51,484
1986-1987	7	21	-	17	49,514
Football:					
1980-1981	8	3	-	8	342,862
1981-1982	9	2	-	8	340,261
1982-1983	6	5	-	8	336,193
1983-1984	5	5	1	8	339,138
1984-1985	7	4	-	9	411,884
1985-1986	4	6	2	8	359,042
1986-1987	7	5	-	8	359,242

1/ Including the Rainbow Easter Tournament and post-season play.
2/ Including the Rainbow Classic.
Source: University of Hawaii, Office of Intercollegiate Athletics, Sports Information Office, records.

Table 268.-- PUBLIC HIGH SCHOOL INTERSCHOLASTIC SPORTS: 1986-1987 SEASON

Sport	Players	Games 1/	Attendance	Expenditure 2/ (dollars)
Baseball ..	Boys	356	65,435	192,435
Basketball	Boys and girls	872	128,212	412,869
Football ..	Boys	252	354,465	602,115

1/ Junior varsity and varsity games, based on published schedules of sports from public school leagues. Data exclude pre-season and post-season games.

2/ Data on expenditures and encumbrances reflect figures from the general and school trust funds.

Source: Hawaii State Department of Education, Office of Instructional Services, Athletics Program, records.

Table 269.-- BOWLING ESTABLISHMENTS (SIC 7933): 1982

[Includes only establishments with payroll]

Subject	Number	Source of receipts from customers	Amount ($1,000)
Establishments	18	Receipts, total	8,069
Lanes operated, Dec. 31	389	Bowling	6,545
Per establishment	22	Sales of food, refreshments. and alcoholic beverages ..	788
Paid lines bowled (1,000)	6,052	Other sources	736

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Miscellaneous Subjects, SC82-I-5 (December 1985), table 22.

Table 270.-- PROFESSIONAL BOXING: 1969 TO 1986

Year	Number of promoters	Number of shows	Paid attendance	Gross receipts (dollars)
1969 ...	2	35	160,539	810,287.75
1970 ...	1	23	89,342	429,647.50
1971 ...	1	22	107,940	589,369.75
1972 ...	3	30	109,835	766,117.50
1973 ...	3	27	86,549	727,970.25
1974 ...	2	22	70,050	468,019.00
1975 ...	2	21	63,684	358,960.75
1976 ...	3	15	36,530	260,971.50
1977 ...	1	12	49,975	270,345.75
1978 ...	1	8	38,374	280,661.00
1979 ...	3	20	69,956	504,699.50
1980 ...	3	21	57,672	419,460.00
1981 ...	4	20	54,476	422,790.50
1982 ...	2	8	9,713	86,128.00
1983 ...	3	12	22,178	200,148.50
1984 ...	1	9	14,937	156,260.00
1985 ...	1	9	18,278	201,852.00
1986 ...	2	6	7,181	67,105.00

Source: Hawaii State Department of Commerce and Consumer Affairs, Boxing Commission, records.

Table 271.-- DOG LICENSES ISSUED, BY ISLANDS: 1981 TO 1986

[Dogs are licensed on a biennial basis]

Year	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
1981	46,706	5,532	4,349	140	393	35,081	1,211
1982	25,617	1,682	1,500	32	62	20,845	1,496
1983	41,566	3,397	3,454	98	203	33,597	817
1984	19,661	1,974	1,372	38	119	15,832	326
1985	33,598	2,809	2,171	35	111	27,654	818
1986	18,713	2,078	1,204	12	39	15,151	229

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the County Departments of Finance.

Section 8

ELECTIONS

This section presents data on election districts, registered voters, votes cast, campaign expenditures, elected officials, and legislative activity.

About 420,000 persons were registered to vote in the general election of November 4, 1986, and more than 344,000 actually voted. The number voting amounted to 44 percent of the 782,000 Hawaii residents of voting age at that time. The latter figure included aliens, inmates of mental and penal institutions, and members of the armed forces and their dependents, groups that are either ineligible or unlikely to vote in Island elections. Among registered voters, females outnumbered males and Democrats were far more numerous than Republicans. Campaign expenditures for the 1986 primary and general elections (other than for federal offices) exceeded $12.8 million.

Hawaii has 2 Congressional, 25 Senatorial, 51 Representative, and 9 Councilmanic districts. It also contains 15 Soil Conservation districts, 30 active Neighborhood Board districts, and 284 election precincts.

Elected officials in Hawaii include the President and Vice President, two U.S. Senators, two U.S. Representatives, the Governor and Lieutenant Governor, 25 State Senators, 51 State Representatives, and various county officials. Persons of Hawaiian blood also vote for the Board of Trustees of the Office of Hawaiian Affairs. The minimum voting age for all races is 18 years.

The 1987 State Legislature, with 76 members, included 60 males, 36 persons under 40 years of age, 28 persons of Japanese ancestry, 18 persons born in places other than Hawaii, and 60 Democrats.

In its 1987 session, the State Legislature considered 3,716 bills; 422 were passed and 384 became law. The Legislature also considered 1,171 resolutions, of which 490 were adopted.

The official results of primary, general, and special elections are published by the Office of the Lieutenant Governor. Additional information is often available from the various county clerks. Earlier figures for Hawaii appear in Historical Statistics of Hawaii, Section 24. National statistics appear in the Statistical Abstract of the United States: 1987, Section 8.

Table 272.-- ELECTION DISTRICTS AND POPULARLY ELECTED OFFICIALS: NOVEMBER 1984 AND 1986

Office	Election districts		Officials to be elected 1/		Total elected officials, including holdover	
	1984	1986	1984	1986	1984	1986
Federal offices:						
President and Vice President	...	...	2	-	2	2
U.S. Senate	...	...	-	1	2	2
U.S. House of Representatives	2	2	2	2	2	2
State offices:						
Governor and Lt. Governor	...	...	-	2	2	2
State Senate	25	25	13	12	25	25
State House of Representatives	51	51	51	51	51	51
Board of Education	2	2	13	6	13	13
Office of Hawaiian Affairs	...	...	4	5	9	9
Soil and water conservation dist. 2/	15	15	...	...	45	45
County offices:						
Mayor	...	...	3	2	4	4
Council:						
Hawaii	...	...	9	-	9	9
Maui	...	...	9	9	9	9
Honolulu	9	9	-	9	9	9
Kauai	...	...	7	7	7	7
Prosecuting Attorney	...	...	3	-	3	3
Neighborhood Boards 3/	28	30	-	-	416	438
Precincts	276	284	-	-	-	-

1/ Including vacancies to be filled.

2/ Three seats are elected and two are appointed for each district. Elections are an ongoing process.

3/ There are 28 active districts out of 33 areas. Elections are conducted every other year in odd-numbered years.

Source: Office of the Lieutenant Governor, November 12, 1986.

Table 273.-- POPULATION OF VOTING AGE AND PERCENT VOTING: 1960 TO 1986

[As of November. Resident population 20 years old and over through 1970 and 18 years and over in 1972 and later years. Includes armed forces stationed in Hawaii]

Year	Persons of voting age	Percent casting votes	
		For Presidential Electors	For U.S. Representatives
1960	371,000	49.7	49.2
1962	390,000	(X)	49.9
1964	404,000	51.3	56.9
1966	417,000	(X)	49.9
1968	439,000	53.8	55.3
1970	473,000	(X)	44.0
1972	547,000	49.4	50.3
1974	586,000	(X)	44.3
1976	624,000	46.7	47.0
1978	657,000	(X)	38.6
1980	696,000	43.6	40.3
1982	725,000	(X)	41.1
1984 1/	758,000	44.3	36.4
1986	2/ 782,000	(X)	42.3

X Not applicable.

1/ Revised from Data Book 1985, table 239.

2/ Of this number, approximately 148,000 were aliens or were military personnel and dependents with legal residence elsewhere. There were thus around 634,000 persons eligible to vote, of whom 66.2 percent were registered and 54.3 percent actually voted in November 1986.

Source: U.S. Bureau of the Census, "Projections of the Population of Voting Age for States: November 1980," Current Population Reports, Series P-25, No. 879, March 1980; "Projections of the Population of Voting Age for States: November 1982," Current Population Reports, Series P-25, No. 916, July 1982; "Projections of the Population of Voting Age for States: November 1984," Current Population Reports, Series P-25, No. 948, April 1984; and "Census Bureau Projects Highest Voting-Age Population Total," Release CB86-65, April 25, 1986. Persons eligible to vote, registered, and casting votes in 1986 calculated by DPED.

Table 274.-- PERCENT OF CIVILIAN POPULATION REGISTERED OR VOTING IN ELECTIONS, 1984 AND 1986, AND BY COUNTIES, 1986

[Based on July 1 estimates of civilian population, including military dependents, aliens, and persons under 18 years of age]

Election	The State		Counties: 1986			
	1984	1986	Hawaii	Maui	Hono-lulu	Kauai
Registered:						
Primary	40.8	39.7	43.1	40.5	38.6	47.5
General	42.8	41.8	44.9	43.5	40.7	49.4
Voting:						
Primary	22.7	28.0	28.3	27.7	27.5	36.5
General	35.7	34.3	36.1	35.5	33.4	42.1

Source: Office of the Lieutenant Governor, Result of Votes Cast for each election; Department of Business and Economic Development, unpublished estimates of civilian population by counties.

Table 275.-- REPORTED VOTING AND REGISTRATION, BY SEX: NOVEMBER 1986

[Number 18 and over in thousands. Percentages based on a sample]

Sex and race	Civilians 18 years old and over	Reported registered		Reported voted	
		Percent	Standard error	Percent	Standard error
Total	714	57.9	1.9	53.0	2.0
Male	347	56.5	2.8	52.6	2.8
Female	367	59.3	2.7	53.4	2.7
White	201	64.0	3.5	55.9	3.7

Source: U.S. Bureau of the Census, "Voting and Registration in the Election of November 1986," Current Population Reports, Population Characteristics, Series P-20, No. 414, September 1987, p. 25.

Table 276.-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY AND GENERAL ELECTIONS: 1970 TO 1986

Type and date of election	Registered voters 1/			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
Primary elections:					
1970: Oct. 3	282,470	(NA)	(NA)	202,401	71.7
1972: Oct. 7	326,906	(NA)	(NA)	203,160	62.1
1974: Oct. 5	333,527	(NA)	(NA)	235,982	70.8
1976: Oct. 2	353,249	175,276	177,973	251,457	71.2
1978: Oct. 7	387,673	190,796	196,877	289,029	74.6
1980: Sept. 20 ...	384,858	186,982	197,876	264,041	68.6
1982: Sept. 18 ...	385,307	185,763	199,544	272,691	70.8
1984: Sept. 22 ...	398,858	190,525	208,333	221,957	55.6
1986: Sept. 20 ...	398,197	189,655	208,542	281,352	70.7
General elections:					
1970: Nov. 3	291,681	146,630	145,051	247,740	84.9
1972: Nov. 7	337,837	169,896	167,941	286,593	84.8
1974: Nov. 5	343,404	171,072	172,332	272,545	79.4
1976: Nov. 2	363,045	180,265	182,780	309,025	85.1
1978: Nov. 7	395,262	194,412	200,850	292,690	74.0
1980: Nov. 4	402,795	195,804	206,991	318,026	79.0
1982: Nov. 2	405,005	195,259	209,746	325,459	80.4
1984: Nov. 6	418,904	200,424	218,480	349,253	83.4
1986: Nov. 4	419,794	200,233	219,561	344,416	82.0

NA Not available.

1/ Data by sex not available for primary elections before 1976.

Source: Office of the Lieutenant Governor, Result of Votes Cast for each election, and records.

Table 277.-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY AND GENERAL ELECTIONS, BY COUNTIES: 1986

[Excludes persons registered for only the Office of Hawaiian Affairs election but not for the regular primary or general elections]

Election and county	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
PRIMARY ELECTION					
State total ..	398,197	189,655	208,542	281,352	70.7
Hawaii	48,166	23,128	25,038	31,636	65.7
Maui	35,454	16,925	18,529	24,221	68.3
Honolulu	292,653	138,867	153,786	208,638	71.3
Kauai	21,924	10,735	11,189	16,855	76.9
Overseas	-	-	-	2	...
GENERAL ELECTION					
State total ..	419,794	200,233	219,561	344,416	82.0
Hawaii	50,107	24,118	25,989	40,370	80.6
Maui	38,055	18,204	19,851	31,103	81.7
Honolulu	308,808	146,707	162,101	253,490	82.1
Kauai	22,824	11,204	11,620	19,449	85.2
Overseas	-	-	-	4	...

Source: Office of the Lieutenant Governor, records.

Table 278.-- PARTY OF VOTES CAST IN PRIMARY ELECTIONS: 1976 TO 1986

Primary election	Total votes cast	Demo-cratic	Repub-lican	Other par-ties	Non-parti-san	Inval-idated
1976	251,457	215,037	35,495	568	357	-
1978 1/ ..	289,029	262,531	25,642	211	548	-
1980	264,041	250,226	10,628	1,089	1,881	217
1982	272,691	245,426	13,262	12,681	1,013	309
1984	221,957	177,102	43,306	695	455	399
1986	281,352	235,559	44,304	-	1,023	466

1/ Party data add to 288,932 rather than reported total.

Source: Office of the Lieutenant Governor, Result of Votes Cast, Primary Election for years shown, and records.

Table 279.-- PARTY OF VOTES CAST IN PRIMARY ELECTION, BY COUNTIES: SEPTEMBER 20, 1986

Party	State total	Hawaii County	Maui County	City and County of Honolulu	Kauai County
Total votes cast	281,352	31,636	24,221	208,640	16,855
Democratic	235,559	26,572	17,908	175,778	15,301
Libertarian 1/	-	-	-	-	-
Republican	44,304	4,977	6,204	31,626	1,497
Nonpartisan	1,023	74	76	826	47
Invalidated	466	13	33	410	10

1/ Not on primary ballot.

Source: Office of the Lieutenant Governor, printouts.

Table 280.-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES: PRIMARY AND SPECIAL ELECTIONS, SEPTEMBER 20, 1986

Office, party and candidate	Votes
PRIMARY ELECTION:	
U.S. SENATOR	
Democrat:	
Daniel K. Inouye	191,676
Republican:	
Marvin Franklin	9,714
Frank Hutchinson	20,375
Nonpartisan:	
Elizabeth A. P. Stone	614
REPRESENTATIVE TO CONGRESS, DISTRICT 1	
Democrat:	
Neil Abercrombie	45,107
Louis Agard	898
Steve Cobb	22,779
Mufi Hannemann	46,269
Republican:	
Patricia Saiki	17,453
REPRESENTATIVE TO CONGRESS, DISTRICT 2	
Democrat:	
Daniel Akaka	93,729
Republican:	
Maria M. Hustace	14,404
GOVERNOR	
Democrat:	
Johnny Fritz	654
Cec Heftel	83,939
Tony Hodges	1,732
William K. Kuaiwa	918
Patsy T. Mink	37,998
Paul H. Snider	740
John Waihee	105,579
Republican:	
D.G. Anderson	38,790
Charles Y. Hirayasu	531
Jack J. Mahakian	403
Wayne C. Thiessen	1,277

Continued on next page.

Table 280.-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES: PRIMARY AND SPECIAL ELECTIONS, SEPTEMBER 20, 1986 -- Con.

Office, party, and candidate	Votes
PRIMARY ELECTION -- Con.:	
LIEUTENANT GOVERNOR	
Democrat:	
Eileen R. Anderson	87,317
Ben Cayetano	130,124
Frank DeCambra	3,259
Helen M. A. Lai	4,490
Republican:	
Vicky Bunye	8,799
John H. Felix	17,228
Richard I. Sutton	3,268
Cynthia Thielen	11,325
MAYOR COUNTY OF MAUI	
Democrat:	
Bill Eger	3,639
Marvin Miura	7,952
Republican:	
Joe Bulgo	1,759
Hannibal Tavares	4,251
MAYOR, COUNTY OF KAUAI	
Democratic:	
Raymond X. Aki	6,366
Tony T. Kunimura	7,739
Republican:	
John F. Barretto, Jr.	1,131
John Sousa	145
SPECIAL ELECTION:	
REPRESENTATIVE TO CONGRESS, DISTRICT 1	
Neil Abercrombie (Democrat)	42,031
Patricia Saiki (Republican)	41,067
Mufi Hannemann (Democrat)	39,800
Steve Cobb (Democrat)	16,721
Louis Agard (Democrat)	566
Blase Harris (Nonpartisan)	460

Source: Office of the Lieutenant Governor, printouts.

Table 281.-- NUMBER OF PRECINCTS, REGISTERED VOTERS, AND VOTES CAST, BY ISLANDS: NOVEMBER 4, 1986

Island	Number of precincts	Registered voters	Votes cast 1/
State total	284	419,794	344,387
Hawaii	51	50,107	40,368
Maui	31	34,263	28,386
Lanai	1	865	753
Molokai: Molokai District	4	2,829	1,891
Kalawao District	1	98	71
Oahu 2/	178	308,808	253,466
Kauai	17	22,699	19,371
Niihau	1	125	77

1/ Total includes 4 overseas voters.

2/ Including the Northwestern Hawaiian Islands, part of the 5th Precinct of the 20th Representative District, in Waimanalo, Oahu.

Source: Office of the Lieutenant Governor, 1986 General Elections - Statewide Results, and records.

Table 282.-- AGE AND SEX OF REGISTERED VOTERS: NOVEMBER 4, 1986

Age	Both sexes	Male	Female
All ages	419,794	200,233	219,561
18 or 19 years	7,721	3,393	4,328
20 to 29 years	71,539	31,840	39,699
30 to 39 years	97,117	45,017	52,100
40 to 49 years	74,691	35,827	38,864
50 to 64 years	98,874	47,483	51,391
65 years and over	69,809	36,662	33,147
Not reported	43	11	32

Source: Office of the Lieutenant Governor, records.

Table 283.-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS, 1976 TO 1986

Office and election year	Total votes cast	Democrat		Republican		Other parties: votes
		Candidate	Votes	Candidate	Votes	
PRESIDENT						
1976	291,301	Carter	147,375	Ford	140,003	3,923
1980	303,287	Carter	135,879	Reagan	130,112	37,296
1984	335,846	Mondale	147,154	Reagan	185,050	3,642
U.S. SENATOR						
1976	302,092	Matsunaga ...	162,305	Quinn	122,724	17,063
1980	288,006	Inouye, D. ..	224,485	Brown	53,068	10,453
1982	306,410	Matsunaga ...	245,386	Brown	52,071	8,953
1986	328,797	Inouye, D. ..	241,887	Hutchinson .	86,910	-
REPRESENTATIVE TO CONGRESS, DISTRICT 1						
1976	137,602	Heftel	60,050	Rohlfing ...	53,745	23,807
1978	115,412	Heftel	84,552	Spillane ...	24,470	6,390
1980	123,181	Heftel	98,256	Noble	19,819	5,106
1982	149,907	Heftel	134,779	None	-	15,128
1984	138,865	Heftel	114,884	Beard	20,608	3,373
1986 1/	168,377	Hannemann ...	63,061	Saiki	99,683	5,633
REPRESENTATIVE TO CONGRESS, DISTRICT 2						
1976	156,099	Akaka	124,116	Inouye, H. .	23,917	8,066
1978	137,957	Akaka	118,272	Isaak	15,697	3,988
1980	157,380	Akaka	141,477	None	-	15,903
1982	148,008	Akaka	132,072	None	-	15,936
1984	136,741	Akaka	112,377	Shipley	20,000	4,364
1986	162,819	Akaka	123,830	Hustace	35,371	3,618
GOVERNOR						
1978	281,587	Ariyoshi ...	153,394	Leopold	124,610	3,583
1982	315,853	Ariyoshi ...	141,043	Anderson, D.	81,507	89,303
1986	334,115	Waihee	173,655	Anderson, D.	160,460	-

Continued on next page.

Table 283.-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS, 1976 TO 1986 -- Con.

Office and election year	Total votes cast	Democrat		Republican		Other parties: votes
		Candidate	Votes	Candidate	Votes	
MAYOR OF HONOLULU						
1976	224,665	Fasi	137,911	Clement	82,595	4,159
1980	219,408	Anderson, E.	152,240	Schweigert .	58,155	9,013
1984	253,853	Anderson, E.	117,841	Fasi	132,875	3,137

1/ For special election to fill unexpired term of Rep. Heftel, Sept. 20, 1986, see table 280.

Source: Office of the Lieutenant Governor, Result of Votes Cast, General Election, State of Hawaii for 1976-1984, 1986 General Elections - Statewide Results, and 1986 tabular addendum.

Table 284.-- REGISTERED VOTERS AND VOTES CAST FOR THE BOARD OF TRUSTEES OF THE OFFICE OF HAWAIIAN AFFAIRS, BY COUNTIES: NOVEMBER 4, 1986

County	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
State total	59,895	26,354	33,541	47,420	79.2
Hawaii	8,526	3,754	4,772	6,794	79.7
Maui	6,350	2,827	3,523	5,188	81.7
Honolulu	41,592	18,183	23,409	32,632	78.5
Kauai	3,427	1,590	1,837	2,806	81.9

Source: Office of the Lieutenant Governor, 1986 General Elections - Statewide Results, and records.

Table 285.-- VOTES CAST FOR MAJOR OFFICES, BY COUNTIES: GENERAL ELECTION, 1986

Office, candidate and party	State total 1/	County of Hawaii	County of Maui	City and County of Honolulu	County of Kauai
U. S. SENATOR					
Inouye (D)	241,887	28,247	22,379	176,839	14,419
Hutchinson (R)	86,910	10,367	7,010	66,021	3,511
REPRESENTATIVE TO CONGRESS, DISTRICT 1					
Saiki (R)	99,683	-	-	99,681	-
Hannemann (D)	63,061	-	-	63,060	-
Harris (L)	5,633	-	-	5,633	-
REPRESENTATIVE TO CONGRESS, DISTRICT 2					
Akaka (D)	123,830	29,045	22,142	57,736	14,906
Hustace (R)	35,371	8,348	6,464	17,837	2,722
Schoolland (L)	3,618	852	590	1,910	266
GOVERNOR					
Waihee (D)	173,655	21,153	16,494	124,920	11,088
Anderson (R)	160,460	17,954	13,456	121,327	7,723
MAYOR, COUNTY OF MAUI					
Tavares (R)	15,921	-	15,921	-	-
Miura (D)	13,772	-	13,772	-	-
MAYOR, COUNTY OF KAUAI					
Kunimura (D)	10,025	-	-	-	10,025
Barretto (R)	8,352	-	-	-	8,352

1/ Includes overseas voters, not shown separately.

Source: Office of the Lieutenant Governor, 1986 General Elections - Statewide Results and tabular addendum.

Table 286.-- CAMPAIGN EXPENDITURES: 1986 ELECTIONS

[Dollars. Jan. 1, 1986 through Dec. 31, 1986]

Election and office	All candidates	Democrats	Republicans	All others
PRIMARY				
All races reported .	8,830,427.80	6,507,152.74	2,323,025.06	250.00
Governor	4,953,649.12	3,931,507.86	1,022,141.26	0.00
Lt. Governor	1,159,330.70	474,746.76	684,583.94	0.00
State Senator	387,339.77	379,005.27	8,334.50	0.00
State Representative	1,210,854.60	936,676.12	274,178.48	0.00
Mayor 1/	274,404.51	159,286.57	115,117.94	0.00
County Council 2/	844,849.10	625,930.16	218,668.94	250.00
GENERAL				
All races reported .	4,040,134.33	2,251,025.65	1,699,757.38	89,351.30
Governor	2,063,683.51	1,048,660.25	1,015,023.26	0.00
Lt. Governor	148,803.83	112,960.72	35,843.11	0.00
State Senator	241,018.26	158,453.00	82,565.26	0.00
State Representative	631,779.49	396,017.84	235,761.65	0.00
Mayor 1/	232,336.14	125,063.38	107,272.76	0.00
County Council 2/	633,161.80	409,870.46	223,291.34	0.00
Board of Education	73,609.19	0.00	0.00	73,609.19
Office of Hawaiian Aff. .	15,742.11	0.00	0.00	15,742.11
TOTAL				
All races reported .	12,870,562.13	8,758,178.39	4,022,782.44	89,601.30
Governor	7,017,332.63	4,980,168.11	2,037,164.52	0.00
Lt. Governor	1,308,134.53	587,707.48	720,427.05	0.00
State Senator	628,358.03	537,458.27	90,899.76	0.00
State Representative	1,842,634.09	1,332,693.96	509,940.13	0.00
Mayor 1/	506,740.65	284,349.95	222,390.70	0.00
County Council 2/	1,478,010.90	1,035,800.62	441,960.28	250.00
Board of Education	73,609.19	0.00	0.00	73,609.19
Office of Hawaiian Aff. .	15,742.11	0.00	0.00	15,742.11

1/ Elections held in 2 counties.
2/ Elections held in 3 counties.
Source: Hawaii State Campaign Spending Commission, August 4, 1987.

Table 287.-- NEIGHBORHOOD BOARD ELECTIONS, FOR OAHU: 1981 TO 1987

Year	Number of boards		Board seats elected	Ballots mailed	Voters (ballots cast)
	In operation, Dec. 31	Holding elections			
1981	28	28	416	294,735	48,745
1983	28	28	416	231,622	62,573
1985	30	30	438	261,222	76,674
1987	30	30	438	260,155	83,072

Source: Neighborhood Commission, City and County of Honolulu, records.

Table 288.-- PARTY MEMBERSHIP OF COUNTY COUNCILS: 1985 AND 1987

[As of January]

County	Total seats	Democrats		Republicans		Other parties or vacant	
		1985	1987	1985	1987	1985	1987
All counties	34	29	29	5	5	-	-
Hawaii	9	7	7	2	2	-	-
Maui	9	8	7	1	2	-	-
Honolulu 1/	9	7	8	2	1	-	-
Kauai	7	7	7	-	-	-	-

1/ In 1985, three Democrats switched to the Republican party. After a special recall election, all three were replaced by Democrats.

Source: The Chamber of Commerce of Hawaii, *Who's Who in Government, State of Hawaii* for 1985-1986, pp. 30-37, and Legislative Reference Bureau, *Directory of State, County and Federal Officials* for 1987, pp. 95, 101, 106, and 110.

Table 289.-- LENGTH OF LEGISLATIVE SESSIONS: 1982 TO 1987

Year	Regular sessions		Special sessions	
	Date convened	Length 1/	Date convened	Length 1/
1982	Jan. 20	99	May 5	2
1983	Jan. 19	94	Sept. 1	2
1984	Jan. 18	93	July 9	5
1985	Jan. 16	97	None	-
1986	Jan. 15	99	July 24	7
1987	Jan. 21	100	None	-

1/ Calendar days, including Saturdays, Sundays, holidays, and mandatory five-day recess required by Art. III, sec. 10, of the Hawaii Constitution.

Source: Legislative Reference Bureau, records.

Table 290.-- PARTY MEMBERSHIP OF THE STATE LEGISLATURE: 1977 TO 1987

Regular session	House of Representatives				Senate			
	Total	Democrats	Republicans	Other	Total	Democrats	Republicans	Other
1977 1/	51	41	10	-	25	18	7	-
1979 ..	51	42	9	-	25	18	7	-
1981 ..	51	39	12	-	25	17	8	-
1983 ..	51	43	8	-	25	20	5	-
1985 ..	51	40	11	-	25	21	4	-
1987 ..	51	40	11	-	25	20	5	-

1/ Forty Democrats and 11 Republicans were elected to the House of Representatives in the general election of November 1976. In January 1977, however, one Republican changed his affiliation to Democrat.

Source: Session Laws of Hawaii, 1975-1985; Office of the Lieutenant Governor, records.

Table 291.-- COMPOSITION OF THE 1987 HAWAII STATE LEGISLATURE

Subject	House of Representatives			Senate		
	Total	Demo-crats	Repub-licans	Total	Demo-crats	Repub-licans
All members	51	40	11	25	20	5
Island of residence:						
Hawaii	6	4	2	3	2	1
Maui	3	3	-	2	1	1
Lanai	-	-	-	-	-	-
Molokai	1	-	1	-	-	-
Oahu	39	31	8	19	16	3
Kauai	2	2	-	1	1	-
Niihau	-	-	-	-	-	-
Year born:						
1926 or earlier	3	3	-	3	2	1
1927 to 1936	10	7	3	6	5	1
1937 to 1946	11	7	4	7	5	2
1947 to 1956	25	21	4	9	8	1
1957 or later	2	2	-	-	-	-
Sex:						
Male	42	33	9	18	16	2
Female	9	7	2	7	4	3
Ethnic stock:						
Caucasian, except Portuguese	10	6	4	6	3	3
Chinese	4	4	-	2	2	-
Filipino	4	3	1	1	1	-
Japanese	19	18	1	9	8	1
Portuguese	2	1	1	-	-	-
Other (unmixed) 1/ ..	-	-	-	-	-	-
Mixed: Part-Hawaiian	8	7	1	6	6	-
Mixed: Non-Hawaiian .	4	1	3	1	1	-
Place of birth:						
Hawaii	37	32	5	21	18	3
Mainland U.S.	12	6	6	4	2	2
U.S. terr. or poss. .	-	-	-	-	-	-
Foreign country	2	2	-	-	-	-

1/ Black, Hawaiian, Korean, Puerto Rican, Samoan, or other ethnic stock.

Source: Office of the Lieutenant Governor, records.

Table 292.-- LEGISLATIVE BILLS AND RESOLUTIONS, BY DISPOSITION: 1985 TO 1987

Action	1985: Regular	1986		1987: Regular
		Regular	Special	
House bills:				
Carried over from previous year	-	1,512	-	-
Introduced	1,660	1,199	9	1,937
Enacted 1/	148	259	-	185
Vetoed 2/, 3/	12	12	-	15
Became law 2/, 4/	134	247	-	168
Senate bills:				
Carried over from previous year	-	1,303	-	-
Introduced	1,487	1,040	3	1,779
Enacted 1/	184	108	2	237
Vetoed 2/	12	7	-	19
Became law 2/	172	101	2	216
House resolutions:				
Offered	483	382	-	500
Adopted	210	212	-	285
House concurrent resolutions:				
Offered	154	216	-	282
Adopted	16	59	-	61
Senate resolutions:				
Offered	194	213	-	205
Adopted	88	136	-	107
Senate concurrent resolutions:				
Offered	140	165	-	184
Adopted	6	17	-	37

1/ Includes bills for constitution amendments: H.B. 1954 in the 1986 regular session and H.B. 572, H.B. 1267, S.B. 107, and S.B. 1139 in 1987.

2/ Excludes bills which passed the Legislature, proposing amendments to the State Constitution: H.B. 29 and H.B. 355 in 1985. The 1987 figure also excludes H.B. 2, H.B. 1469, and S.B. 1735, which contain vetoed items.

3/ Figure for 1986 regular session excludes H.B. 1741 (Act 345, S.L.H. 1986), which contains a line item veto.

4/ Figure for 1986 regular session includes H.B. 107, which became Act 3 and Act 94, S.L.H. 1986.

Source: Legislative Reference Bureau, records.

Section 9

GOVERNMENT FINANCES AND EMPLOYMENT

This section presents statistics relating to the revenues, expenditures, debt, and civilian employment of Federal, State and county governments in Hawaii.

Local government is vested in one combined city-county (Honolulu, consisting of the Island of Oahu and several outlying islets), three non-metropolitan counties (Hawaii, Kauai, and Maui), and one area (Kalawao County) administered by the State Department of Health. Separate municipal governments do not exist.

Tax collections by Federal, State and county governments in fiscal 1986 reached $4.3 billion, more than twice the level reported ten years earlier. The 1986 total included $2.3 billion in U.S. taxes, $1.6 billion in State taxes, and $397 million in county taxes, licenses and fees. Individual income taxes accounted for 87 percent of Federal collections and 30 percent of State collections in Hawaii in 1986. State revenue receipts totaled $2.6 billion, chiefly from the general excise and use tax ($747 million), individual income tax ($468 million) and Federal grants-in-aid ($394 million). The largest expenditure item in the State accounts for 1986 was education, with $773 million (out of $2.46 billion) going to the University of Hawaii and public schools and libraries. The counties, in contrast, depended largely on the real property tax (which until mid-1981 was assessed and collected by the State) and grants-in-aid for their revenues, and reported police and fire protection as their largest single expenditure item. Assessed valuation of the State tripled between 1977 and 1987, reaching $55 billion by the end of the period; of this total, $8 billion was exempt from taxation. Public bonded debt outstanding at the end of 1986 exceeded $3.3 billion.

Total government employment in 1986 averaged 94,000, about 5 percent over the 1980 average. The 1986 total included 32,100 Federal workers, 48,600 persons employed by the State, and 13,100 persons on county payrolls. State civil service employees as of mid-1986 numbered 18,400.

Important sources for statistics on government in Hawaii include the U.S. Census of Governments and various annual publications of the Bureau of the Census, reports of the U.S. Treasury Department, Hawaii State Departments of Accounting and General Services, Budget and Finance, and Taxation, and the County auditors and finance directors, and an annual compilation issued by the Tax Foundation of Hawaii, Government in Hawaii: A Handbook of Financial Statistics. Data extending back to the middle of the 19th century are summarized in Historical Statistics of Hawaii, Section 25. Comparable Mainland statistics appear in the Statistical Abstract of the United States: 1987, Sections 9 and 10.

Table 293.-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS: 1970 TO 1986

[Thousands of dollars]

Year	All levels	Federal 1/	State and counties 2/		
			Total	State	Counties
1970	1,061,376	602,998	458,378	438,397	15,981
1971	1,105,657	608,051	497,606	480,690	16,916
1972	1,162,700	632,583	530,117	512,047	18,070
1973	1,327,150	735,358	591,792	571,689	20,104
1974	1,512,414	840,089	672,325	650,855	21,470
1975 3/ .	1,852,801	1,087,520	765,281	743,923	21,358
1976	1,821,934	945,899	876,035	850,639	25,396
1977	2,038,318	1,106,687	931,631	905,949	25,682
1978	2,228,779	1,208,480	1,020,299	986,182	34,117
1979	2,620,194	1,455,225	1,164,969	1,127,677	37,292
1980	2,966,218	1,670,459	1,295,669	1,255,622	40,047
1981	3,245,507	1,826,363	1,419,144	1,371,490	47,655
1982	3,314,107	1,876,628	1,437,479	1,132,699	304,779
1983	3,451,664	1,897,858	1,553,806	1,225,010	328,796
1984	3,655,283	1,980,467	1,674,816	1,331,551	343,265
1985	3,922,943	2,116,774	1,806,169	1,440,553	365,616
1986	4,296,655	2,337,030	1,959,625	1,562,195	397,429

1/ Fiscal years ended June 30 through 1976 and September 30 thereafter.

2/ Fiscal years ended June 30. Totals include taxes collected from visitors and other nonresidents.

3/ Revised from Data Book 1985, table 258.

Source: Tax Foundation of Hawaii, Government in Hawaii: A Handbook of Financial Statistics (annual).

Table 294.-- TAX COLLECTIONS RELATIVE TO POPULATION AND PERSONAL INCOME, BY LEVEL OF GOVERNMENT: 1970 TO 1986

[Data include taxes collected in Hawaii from visitors and other nonresidents. Revised from Data Book 1986, table 282]

Year	Per capita collections 1/ (dollars)			Collections as a percent of personal income 2/		
	All levels	Federal 3/	State and counties 4/	All levels	Federal 3/	State and counties 4/
1970 ..	1,376	781	594	28.1	16.0	12.2
1971 ..	1,379	759	621	27.2	15.0	12.3
1972 ..	1,404	764	640	26.0	14.1	11.9
1973 ..	1,558	864	695	26.7	14.8	11.9
1974 ..	1,742	968	775	26.5	14.7	11.8
1975 ..	2,091	1,227	864	30.1	17.7	12.4
1976 ..	2,015	1,046	969	27.3	14.2	13.1
1977 ..	2,220	1,205	1,015	28.3	15.4	12.9
1978 ..	2,329	1,297	1,095	27.7	15.0	12.7
1979 ..	2,749	1,527	1,222	29.0	16.1	12.9
1980 ..	3,061	1,724	1,337	28.9	16.3	12.6
1981 ..	3,311	1,863	1,448	29.4	16.5	12.8
1982 ..	3,321	1,881	1,441	28.2	16.0	12.2
1983 ..	3,389	1,863	1,525	26.9	14.8	12.1
1984 ..	3,528	1,912	1,617	26.8	14.5	12.3
1985 ..	3,731	2,013	1,718	26.5	14.3	12.2
1986 ..	4,054	2,200	1,845	27.2	14.8	12.4

1/ Based on estimated resident population, July 1.

2/ Based on income estimates for calendar years.

3/ Collections data refer to fiscal years ended June 30 through 1976 and September 30 thereafter.

4/ Collection data refer to fiscal years ended June 30.

Source: Calculated from collections data in preceding table, population estimates in DBED Statistical Report 201 and income estimates in U.S. Bureau of Economic Analysis printout dated August 1987.

Table 295.-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS, BY SOURCES: 1976, 1985, AND 1986

[In thousands of dollars]

Source	1976 1/	1985 2/	1986 2/
Total, all levels	1,821,934	3,922,943	4,296,654
Federal collections	945,899	2,116,774	2,337,030
Indiv. income and employment 3/	783,504	1,861,697	2,025,180
Corp. income and excess profits	130,719	166,475	227,174
Excise	15,181	33,576	36,978
Estate	11,449	39,406	29,316
Gift	1,709	451	2,684
Unemployment insurance	3,338	15,169	15,698
State collections	850,639	1,440,553	1,562,195
General excise and use	309,903	684,028	747,102
Fuel	41,547	58,539	67,559
Liquor	15,010	20,635	29,852
Tobacco	9,574	19,717	19,741
Insurance	16,082	28,705	34,609
Public service companies	28,583	62,305	70,265
Corporate income 4/	32,862	44,837	39,589
Indiv. income, net income 5/	184,916	429,256	467,206
Inheritance and estate	3,254	12,260	5,971
Unemployment compensation	48,967	68,701	66,951
Other sources	159,941	11,570	13,349
County collections	25,396	365,616	397,429
Real property	-	308,156	333,670
Utility franchise	5,614	18,779	18,049
Motor vehicle weight 6/	12,447	26,253	32,504
Other sources	7,336	12,447	13,206

1/ Fiscal year ended June 30.

2/ Fiscal year ended September 30 for Federal collections and June 30 for others.

3/ Includes withholding, FICA, individual income, and railroad retirement taxes.

4/ Includes payments of estimated taxes less refunds.

5/ Includes withheld and estimated taxes less refunds, and delinquent compensation taxes (repealed January 1, 1958).

6/ Includes State motor vehicle weight tax for 1985 and 1986.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1987, tables 13 and 29.

Table 296.-- ESTIMATED TAX BURDEN FOR A FOUR-PERSON FAMILY ON OAHU: 1986

[Based on a gross family income equivalent to four times the per capita personal income estimated for Hawaii]

Tax category 1/	Amount (dollars)
Total tax burden 2/	18,828
Direct taxes 3/	14,581
Real property	808
Automobile	352
General excise (sales)	876
State income	2,884
Federal income	6,404
Social Security	3,330
Indirect taxes (specific taxes)	188
Employment taxes paid by employer	7,979
Social Security	3,330
Unemployment Compensation	642
Workers' Compensation	3,780
Temporary Disability Insurance	224
Assumed gross family income	55,256
Net income	36,428

1/ For underlying assumptions, see source.

2/ Based on four times the per capita overall tax burden, including corporate income taxes, and not on the sum of the direct and employment taxes listed in this table.

3/ Excludes general excise tax on gasoline.

Source: Tax Foundation of Hawaii, The Tax Burden of the Arnie Aloha Family (July 1987).

Table 297.-- FAMILY TAX BURDEN, BY NUMBER OF WAGE EARNERS AND DEPENDENTS AND GROSS INCOME, FOR HONOLULU: 1988

Subject	2 incomes, no dependents			1 income, 3 dependents		
	$15,000	$35,000	$75,000	$15,000	$35,000	$75,000
Total tax liability ..	$1,862	$5,993	$19,337	$1,200	$5,515	$17,898
Percent of income ..	12.4	17.1	25.8	8.0	15.8	23.9
Federal taxes	915	3,003	11,767	330	2,708	10,809
State and local taxes ..	947	2,991	7,570	870	2,807	7,089
51-city index, total 1/	0.91	1.02	1.04	0.84	1.01	1.03
Federal taxes	1.00	1.00	0.98	1.00	1.00	0.98
State and local taxes ..	0.84	1.05	1.16	0.80	1.02	1.12

1/ Honolulu relative to 51-city average (based on largest city in each State, plus D.C.).

Source: Government Finance Research Center of the Government Finance Officers Association, Comparative Tax Burdens: Largest City in Each State (1987), p. 43.

Table 298.-- STATE TAX CAPACITY, 1967 TO 1984, AND EFFORT, 1984

[U.S. average = 100]

Measure	1967	1975	1980	1983	1984
State tax capacity or wealth 1/ ..	99	109	107	114	118
State tax effort 2/	...	...	...	...	99

1/ Tax capacity, as estimated under the Representative Tax System (RTS) methdology, is a hypothetical measure of how much revenue a state could raise if it levied national average tax rates and used tax bases representative of most other states.

2/ A measure of the extent to which a state uses the tax bases available to it, relative to the national average.

Source: U.S. Advisory Commission on Intergovernmental Relatives, "1984 State Tax Wealth: Preview of the RTS Estimates," Intergovernmental Perspective, Summer 1986, pp. 24-28.

Table 299.-- STATE REVENUE RECEIPTS: 1985 AND 1986

[In thousands of dollars. Years ended June 30]

Source of revenues	1985: all funds 1/	1986		
		All funds	General funds	Special funds
Total 2/	2,388,967	2,571,665	1,564,971	1,006,694
Tax revenues	1,426,877	1,553,126	1,411,978	141,148
General excise	684,028	747,094	732,869	14,225
Specific excises 3/	178,672	215,950	156,359	59,590
Individual income	428,722	467,644	467,644	-
Corporate income	44,837	38,726	38,726	-
Unemployment compensation	68,701	66,951	-	66,951
Other taxes, licenses, permits 4/	21,917	16,761	16,379	381
Fines, forfeits, and escheats	11,366	13,229	11,882	1,347
Federal grants-in-aid	359,941	393,969	10,294	383,676
Revenues from other agencies	9,584	10,244	1,989	8,256
Rents, royalties, land income 5/	23,121	24,590	4,802	19,788
Earnings: general departments	182,085	196,535	54,856	141,679
Earnings: auxiliary enterprises	29,579	30,133	-	30,133
Earnings: public service enterp.	113,598	122,777	-	122,777
Interest earned	115,104	114,331	49,723	64,608
Miscellaneous	117,714	112,730	19,447	93,283

1/ Revised from Data Book 1986, table 299.
2/ Excludes transfers and repayments except as shown.
3/ Includes public utilities, tobacco, liquor, insurance, and fuel taxes.
4/ Includes franchise tax, inheritance and estate taxes, and conveyance tax.
5/ Includes investment and unallocable interest income.

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1987*, table 12.

Table 300.-- STATE OPERATING EXPENDITURES, BY FUNCTION: 1976, 1985, AND 1986

[In thousands of dollars. For years ended June 30. Due to reclassification of funds, 1976 data are not exactly comparable to later years. Data include general, special, and proprietary fund expenditures; Unemployment Trust Fund treated as a special fund. Interfund transfers eliminated to avoid duplication]

Functions	1976	1985	1986
Total	1,283,471	2,330,678	2,456,119
General government: Control	19,050	51,787	56,203
Staff	58,545	92,995	138,475
Public safety: Police and fire .	184	2,066	2,260
Other protection	46,737	78,853	90,359
Highways	25,908	128,498	104,534
Natural resources	15,409	21,031	21,411
Health and sanitation	19,702	80,890	83,782
Hospitals and institutions	57,707	110,693	120,827
Public welfare	167,998	321,112	322,461
Education: Higher	147,613	272,478	299,429
Public schools	218,376	414,815	450,259
Libraries and other .	11,475	16,785	23,534
Recreation	7,987	14,256	16,751
Utilities and other enterprises	51,605	84,462	90,262
Debt service 1/	92,486	232,801	262,385
Retirement and pension	47,898	142,354	141,454
Employees' health and hosp. insurance	7,672	32,644	659
Unemployment compensation	109,080	79,562	63,072
Grants-in-aid to counties	18,248	18,173	18,173
Urban redevelopment and housing	55,069	92,307	94,762
Miscellaneous	15,062	25,416	41,587
Cash capital improvements 2/ ...	89,661	16,700	13,480

1/ Debt service on revenue bonds reimbursable from highway funds included under Highways; from airport and harbor funds under Utilities; from Sand Island receipts, land revolving trust, and Veterans' Home Loan funds under Miscellaneous.

2/ Special funds accounted for $76,991,321 in 1976, $9,402,204 in 1985, and $10,005,460 in 1986.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1987, table 35.

Table 301.-- OPERATING REVENUES, BY SOURCE, AND OPERATING EXPENDITURES, BY OBJECT, FOR COUNTIES: 1976, 1985, AND 1986

[In thousands of dollars. For years ended June 30]

Subject	1976	1985 1/	1986
OPERATING REVENUES 2/			
Total	333,075	586,445	640,539
Real property taxes	153,909	308,156	333,670
Other taxes	28,705	58,420	58,574
Fees, licenses, permits, and fines	9,159	15,392	16,479
Departmental earnings and charges	10,703	78,136	75,707
State grants	22,789	26,496	27,265
Federal grants	103,071	74,519	100,375
Other sources	4,739	25,324	28,469
OPERATING EXPENDITURES 3/			
Total	327,750	592,618	610,933
General government: Control	5,493	8,812	8,150
Staff	28,815	57,376	59,322
Public safety: Police and fire	61,843	128,528	131,835
Other protection	10,840	21,971	22,682
Highways	17,308	27,194	29,843
Health and sanitation	19,975	50,107	53,069
Public welfare	827	6,859	7,481
Public schools	483	584	566
Recreation	20,927	40,529	41,668
Interest	11,011	24,054	30,324
Bond redemption	18,264	19,427	4,810
Pension and retirement	16,577	53,632	54,863
Economic and urban development	31,542	18,157	20,548
Mass transit	19,338	47,468	34,006
Miscellaneous	13,615	34,624	34,012
Cash capital improvements	50,892	53,295	77,755

Footnotes and source follow next table.

Table 302.-- OPERATING REVENUES, BY SOURCE, AND OPERATING EXPENDITURES, BY OBJECT, FOR COUNTIES: 1986

[In thousands of dollars. For year ended June 30, 1986]

Subject	City and Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
OPERATING REVENUES 2/				
Total	480,653	58,087	68,409	33,390
Real property taxes	242,851	31,558	41,387	17,874
Other taxes	43,821	6,380	5,579	2,795
Fees, licenses, permits, and fines	11,534	2,378	1,848	719
Departmental earnings and charges	60,628	7,556	4,268	3,254
State grants	8,386	7,384	7,842	3,653
Federal grants	87,430	2,112	5,987	4,846
Other sources	26,003	720	1,498	249
OPERATING EXPENDITURES 3/				
Total	452,113	61,494	66,183	31,143
General government: Control	4,628	1,007	1,620	895
Staff	40,505	6,746	7,200	4,871
Public safety: Police and fire	93,009	12,017	19,633	7,176
Other protection	15,244	2,310	4,284	844
Highways	17,942	4,776	4,264	2,862
Health and sanitation	43,973	5,192	2,573	1,331
Public welfare	-	4,088	2,445	948
Public schools	-	179	270	117
Recreation	30,160	4,022	5,409	2,078
Interest	22,720	2,065	4,102	1,436
Bond redemption	76	1,858	1,643	1,233
Pension and retirement	38,915	3,425	9,232	3,291
Economic and urban development	20,548	-	-	-
Mass transit	33,351	-	655	-
Miscellaneous	27,736	3,879	1,672	3,364
Cash capital improvements	63,306	9,932	1,181	697

1/ Revised from Data Book 1986, table 301.

2/ Excludes loan, bond, revolving, improvement district, and certain trust funds, water revenues, Hilo Hospital, and Act 95, SLH 1965 special funds.

3/ Excludes certain revolving, bond, and Act 97 fund expenditures, loan repayments, Hilo Hospital special fund, and urban redevelopment land purchases. Interfund transfers omitted to avoid duplication.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1987, tables 24-27 and 36-39.

Table 303.-- NUMBER OF EXEMPTIONS AND ADJUSTED GROSS INCOME REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: 1969 TO 1984

Year income was received	Number of returns	Number of exemptions 1/	Adjusted gross income (less deficit)		
			Total ($1,000)	Per return (dollars)	Per exemption 1/ (dollars)
1969	290,251	716,153	2,407,048	8,293	3,361
1970	302,426	763,992	2,802,445	9,267	3,668
1971	308,814	809,612	3,010,051	9,747	3,718
1972	318,023	763,985	3,250,608	10,221	4,255
1973	345,211	832,636	3,749,212	10,861	4,503
1974	346,824	805,533	3,957,023	11,409	4,912
1975	358,510	841,976	4,269,028	11,908	5,070
1976	362,956	815,937	4,625,609	12,744	5,669
1977	380,937	847,098	5,218,740	13,700	6,161
1978	403,217	925,125	5,943,659	14,741	6,425
1979	412,922	880,845	6,493,228	15,725	7,372
1980	424,177	936,056	7,320,740	17,259	7,821
1981	437,977	957,338	7,870,617	17,970	8,221
1982	445,953	1,027,743	8,236,603	18,470	8,014
1983	450,097	1,037,030	8,652,808	19,224	8,344
1984	461,424	1,055,297	9,322,406	20,204	8,834

1/ Exemptions for age or blindness excluded through 1981 and included thereafter.

Source: U.S. Treasury Department, Internal Revenue Service, Statistics of Income. Individual Income Tax Returns (annual); SOI Bulletin, Summer 1985, p. 93, and Winter 1985-86, p. 97; and records.

Table 304.-- CHARACTERISTICS OF INDIVIDUAL FEDERAL INCOME TAX RETURNS: TAX YEAR 1984

Subject	Number of returns	Amount ($1,000)
All returns and adjusted gross income (AGI) ...	461,424	9,322,406
Salaries and wages	400,452	7,765,670
Dividends after exclusion	68,520	193,874
Tax liability	392,619	1,224,322
Earned income credit	17,085	-4,464
Interest	336,810	722,525
Unemployment compensation in AGI	19,483	30,925
Itemized deductions	189,399	1,852,314

Source: U.S. Treasury Department, SOI Bulletin, Winter 1985-86, pp. 97-99.

Table 305.-- INCOME DISTRIBUTION REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: 1982 TO 1985

[By year in which income was received. Comparability from year to year is affected by changes in tax laws, changes in return forms, and other factors]

Size of adjusted gross income	1982	1983	1984	1985
All returns	445,953	450,097	461,424	470,745
Under $10,000	169,298	164,475	161,843	157,592
$10,000 under $15,000	68,692	69,635	71,096	71,127
$15,000 under $50,000	186,863	191,476	199,683	206,162
$50,000 and over	21,100	24,511	28,802	35,864
Median income (dollars)	13,907	14,349	14,843	16,130

Source: U.S. Treasury Department, Internal Revenue Service, Statistics of Income, and Individual Master File for 1982, 1983, 1984, and 1985.

Table 306.-- ADJUSTED GROSS INCOME AND INCOME TAX, BY SIZE OF ADJUSTED GROSS INCOME, FOR INDIVIDUAL FEDERAL INCOME TAX RETURNS: TAX YEARS 1984 AND 1985

Size of adjusted gross income	Number of returns	Adjusted gross income less deficit ($1,000)	Total income tax	
			Number of returns	Amount ($1,000)
1984				
All returns	461,424	9,322,406	392,619	1,224,322
Under $10,000	161,843	618,293	97,088	39,377
$10,000 under $15,000 ..	71,096	883,948	69,277	72,166
$15,000 under $50,000 ..	199,683	5,546,699	197,558	652,285
$50,000 and over	28,802	2,273,465	28,696	460,495
1985				
All returns	470,745	9,965,599	401,174	1,303,224
Under $10,000	157,592	594,482	92,534	37,405
$10,000 under $15,000 ..	71,127	885,637	69,041	70,943
$15,000 under $50,000 ..	206,162	5,756,704	203,839	666,567
$50,000 and over	35,864	2,728,775	35,760	528,309

Source: U.S. Treasury Department, Internal Revenue Service, Statistics of Income--1984 and 1985, Individual Master File.

Table 307.-- INTERNAL REVENUE SERVICE OPERATIONS: 1984 TO 1986

Subject	1984	1985	1986
Internal revenue collections ($1,000)	1,980,467	2,116,774	2,337,030
Individual income and employment taxes	1,744,863	1,876,866	2,040,878
Total returns filed	789,737	797,835	859,789
Individual income tax	448,974	459,491	472,022
Returns examined	7,019	8,197	7,326
Individual	6,217	7,359	6,545
Additional tax and penalties recommended after examination ($1,000)	39,654	42,613	88,471
Individual	17,742	20,631	43,577
Costs incurred ($1,000)	8,902	8,638	8,418

Source: Internal Revenue Service, Annual Report, 1984, 1985, and 1986.

Table 308.-- RESIDENT INDIVIDUAL STATE INCOME TAX RETURNS: TAX YEARS 1980 TO 1985

Year income was received	Number of resident returns	Adjusted gross income 1/ ($1,000)	Net taxable income ($1,000)	Tax liability ($1,000)
1980	423,858	6,506,757	4,275,817	321,738
1981	448,320	6,884,575	4,479,808	336,497
1982	422,535	6,912,014	4,469,031	339,108
1983	424,194	7,088,769	4,695,499	360,551
1984	422,245	7,604,199	4,980,484	387,300
1985	427,572	8,060,406	5,284,942	415,544

1/ Exclusive of losses.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns Individuals (annual).

Table 309.-- MEDIAN ADJUSTED GROSS INCOME OF RESIDENT STATE INCOME TAX RETURNS, BY TYPE OF RETURN, 1968 TO 1985, AND BY COUNTIES, 1985

[In dollars]

Year income was received	Taxable and nontaxable returns			Taxable returns only		
	All returns	Single 1/	Joint	All returns	Single 1/	Joint
1968	6,180	2,595	10,618	7,474	3,815	11,235
1969	6,534	2,623	11,581	7,915	3,839	12,156
1970	7,018	2,969	12,358	8,348	3,981	13,072
1971	7,366	2,962	12,685	8,936	4,263	13,497
1972	7,462	3,284	13,515	9,218	4,553	14,358
1973	7,680	3,262	14,114	9,666	4,650	15,189
1974	7,844	3,774	15,319	9,945	5,193	16,667
1975	8,140	3,890	16,350	10,448	5,406	17,706
1976	(NA)	4,318	(NA)	10,608	5,790	18,705
1977	8,726	4,236	17,716	11,057	5,838	19,718
1978	9,302	4,538	20,276	12,279	6,274	22,335
1979	8,738	4,757	20,073	11,804	6,875	22,636
1980	9,676	5,294	21,510	13,464	7,639	24,980
1981	10,220	5,794	23,321	14,737	8,455	26,881
1982	11,178	6,080	23,737	15,466	9,636	27,285
1983	11,297	6,432	25,047	15,937	10,009	29,076
1984	12,035	6,858	25,290	16,565	10,540	28,935
1985	12,488	7,087	25,838	17,124	10,710	29,870
COUNTIES: 1985						
Honolulu ...	12,768	7,343	27,279	17,461	10,787	31,060
Maui	13,136	8,588	23,880	16,269	11,568	27,980
Hawaii	9,816	4,671	19,831	15,945	9,353	24,890
Kauai	12,460	6,051	23,620	17,138	10,194	28,224

NA Not available.

1/ Including married filing separately and heads of households.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns, Individuals (annual), and records.

Table 310.-- STATE INCOME TAX RESIDENT RETURNS ON INCOME RECEIVED DURING 1985, BY ADJUSTED GROSS INCOME CLASS

Adjusted gross income class	Number of returns	Adjusted gross income 1/ ($1,000)	Net taxable income 2/ ($1,000)	Tax liability ($1,000)
All resident returns ...	427,572	8,060,406	5,284,942	415,544
Taxable resident returns	336,152	7,876,842	5,284,942	415,544
$1,000, under $5,000	41,637	141,353	56,215	2,075
$5,000, under $10,000	55,508	415,203	253,313	14,315
$10,000, under $20,000	89,964	1,298,553	885,168	60,150
$20,000, under $30,000	58,342	1,433,778	971,408	72,833
$30,000, under $40,000	38,295	1,326,153	881,315	68,954
$40,000, under $50,000	23,065	1,032,328	707,037	57,651
$50,000, under $75,000	21,778	1,297,294	874,794	75,284
$75,000, under $100,000	4,472	378,993	263,541	24,345
$100,000 and over	3,091	553,188	392,151	39,937
Nontaxable resident returns ..	91,420	183,564	...	...
Loss	4,049	(59,923)	...	...
Under $5,000	78,720	77,643	...	...
$5,000, under $10,000	5,529	39,530	...	...
$10,000 and over	3,122	66,391	...	...

1/ Total and subtotals exclude losses.

2/ Excludes zero bracket amount of $297,796,400. Conforms to taxable income as defined prior to 1982.

Source: Hawaii State Department of Taxation, records.

Table 311.-- GENERAL EXCISE AND USE TAX BASE AND COLLECTIONS: 1985 AND 1986

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems]

Source of revenue	Tax base		Tax collections	
	1985	1986	1985	1986
All sources	24,323,273	26,290,777	707,381	777,961
Sources taxed at 4 percent	16,752,875	18,485,648	670,115	739,426
Retailing	8,499,254	9,239,373	339,970	369,575
Services	2,481,669	2,784,169	99,267	111,367
Contracting	1,367,733	1,808,024	54,709	72,321
Theater, amusement, radio	154,830	159,881	6,193	6,395
Interest	206,256	200,656	8,250	8,001
Commissions	318,902	365,485	12,756	14,645
Hotel rentals	1,122,268	1,212,782	44,891	48,511
All other rentals	1,914,986	2,065,668	76,599	82,627
Use (4 percent)	355,439	279,636	14,218	11,185
All others	331,538	369,974	13,261	14,799
Sources taxed at other rates 1/	7,570,398	7,805,129	37,266	38,535
Insurance solicitors	167,438	140,120	251	210
Sugar processing	357,151	336,334	1,786	1,682
Pineapple canning 2/	115,754	32,974	579	165
Producing	262,791	250,954	1,314	1,255
Manufacturing	527,673	568,532	2,638	2,843
Wholesaling	4,095,220	4,443,166	20,476	22,216
Services (intermediary)	116,300	127,992	582	640
Use (1/2 percent)	1,928,071	1,905,057	9,640	9,525

1/ Insurance solicitors at 0.15 percent; others at 0.5 percent.

2/ Most exported canned pineapple is now exempted from general excise taxes when major companies are granted foreign trade subzone status.

Source: Hawaii State Department of Taxation, General Excise and Use Tax Base and General Excise and Use Tax Collections (calendar year summary tables).

Table 312.-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS ON ALCOHOL BEVERAGES, BY TYPE OF BEVERAGE: 1985

[$1,000]

Type of beverage	All levels	Federal 1/	State and county		
			Total	State 2/	County 3/
All types	42,907	6,879	36,028	32,671	3,357
Distilled spirits ..	15,937	5,570	10,367	9,401	966
Wine	5,392	1,026	4,366	3,959	407
Beer	21,578	283	21,295	19,311	1,984

1/ Fiscal year data.

2/ Wholesale ad valorem liquor tax, penalties, interest, and license fees. Calendar year data. Data include $13.9 million from 1985 previously held in escrow.

3/ Mostly license fees. Fiscal year data.

Source: 1985 Annual Report, Commissioner and Chief Counsel, Internal Revenue Service, p. 47; Distilled Spirits Council of the United States, Inc., letter dated August 5, 1987.

Table 313.-- REAL PROPERTY TAX VALUATIONS: ANNUALLY, 1977 TO 1987

[Thousands of dollars. As of January 1. Government parcels assessed at $1 beginning in 1983; for estimated value of such parcels in 1987, see table 316]

Year	Assessment ratio 1/	Assessor's gross valuation			Valuation for tax rate purposes
		Total	Land	Improvement	
1977 ...	60	15,951,005	8,886,616	7,064,389	10,114,771
1978 ...	60	17,761,105	9,846,501	7,914,604	11,531,484
1979 ...	60	19,376,848	10,690,826	8,686,022	12,908,172
1980 ...	60	21,881,304	12,074,217	9,807,087	14,831,641
1981 ...	60	25,371,079	13,775,220	11,595,859	17,933,736
1982 ...	60	29,631,825	15,982,660	13,649,165	21,397,832
1983 ...	100	46,659,440	23,603,352	23,056,088	39,508,235
1984 ...	100	49,085,380	24,900,368	24,185,012	41,672,612
1985 ...	100	51,231,020	25,507,708	25,723,312	43,581,421
1986 ...	100	52,814,463	26,442,872	26,371,591	45,222,885
1987 ...	100	54,655,038	27,396,477	27,258,561	46,629,959

1/ Percent of fair market value.

Source: Hawaii State Department of Taxation, "Real Property Tax Valuations and Tax Rates" (annual release, through 1980); Honolulu Department of Finance, Real Property Assessment Division, "Real Property Tax Valuations & Tax Rates for the Fiscal Year 1981-82," and "Real Property Tax Valuations, Tax Rates, & Exemptions" (annual, 1982 forward).

Table 314.-- REAL PROPERTY TAX VALUATIONS: 1985 TO 1987

[In thousands of dollars]

Subject	1985	1986	1987
Assessor's gross valuation 1/	51,231,020	52,814,463	54,655,038
Land	25,507,708	26,442,872	27,396,477
Improvement	25,723,312	26,371,591	27,258,561
Exemptions 1/	6,986,720	7,070,511	7,665,004
Assessor's net taxable valuation ..	44,244,300	45,743,952	46,990,034
Half of valuation on appeal	662,879	521,067	360,075
Number of appeals	3,355	3,562	2,354
Valuation for tax rate purposes ...	43,581,421	45,222,885	46,629,959
Land	23,226,482	24,183,369	24,837,828
Improvement	20,354,939	21,039,516	21,792,131
Amount to be raised by taxation 2/	324,090	334,281	344,518

1/ Government parcels assessed at $1; see table 316 for estimated actual value.

2/ For fiscal years beginning July 1.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates, & Exemptions (annual).

Table 315.-- REAL PROPERTY TAX VALUATIONS, BY COUNTIES: 1987

[In thousands of dollars]

Subject	Honolulu	Maui	Hawaii	Kauai
Assessor's gross valuation 1/	39,994,368	6,635,888	5,356,740	2,668,042
Land	20,216,999	3,120,478	2,748,190	1,310,810
Improvement	19,777,369	3,515,410	2,608,550	1,357,232
Exemptions 1/	6,054,141	557,154	764,848	288,861
Assessor's net taxable valuation .	33,940,227	6,078,734	4,591,892	2,379,181
Half of valuation on appeal	291,905	25,227	28,553	14,390
Number of appeals	1,101	376	667	210
Valuation for tax rate purposes ..	33,648,322	6,053,507	4,563,339	2,364,791
Land	18,113,213	2,952,571	2,556,110	1,215,934
Improvement	15,535,109	3,100,936	2,007,229	1,148,857
Amount to be raised by taxation 2/	251,645	33,739	41,420	17,714

1/ Government parcels assessed at $1; see table 316 for statewide data on estimated actual value.

2/ For fiscal year beginning July 1.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates, & Exemptions, 1987-1988 Tax Year, State of Hawaii (July 1987), pp. 2-5.

Table 316.-- REAL PROPERTY TAX EXEMPTIONS, BY TYPE: 1987

Type of exemption	Number	Amount 1/ ($1,000)
All exemptions	183,374	17,706,559
Federal government	457	2,350,059
State government	5,970	6,166,291
County government	3,286	1,464,676
Hawaiian Homes Commission	894	61,751
Homes--fee	121,019	3,527,883
Homes--leasehold	35,959	907,492
Churches	1,371	577,794
Government leases	486	622,149
Hospitals	75	283,419
Low-moderate income housing	162	302,481
Charitable organizations	549	368,086
Public utilities	787	325,884
Schools	129	325,380
All others	12,230	423,214

1/ Includes government parcels at actual value and exemptions on federal leases, if any.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates & Exemptions, 1987-1988 Tax Year, State of Hawaii (July 1987), p. 6.

Table 317.-- REAL PROPERTY TAX VALUATIONS, BY LAND USE CLASSES: 1987

[In thousands of dollars]

Land use class	Gross valuation, Jan. 1, 1987 1/			Amounts to be raised by taxation, fiscal 1987-88
	Total	Land	Improvement	
All classes	54,655,038	27,396,477	27,258,561	344,518
Improved residential ...	26,881,572	15,025,039	11,856,533	143,507
Apartment	8,335,028	2,480,800	5,854,228	49,796
Commercial	6,491,728	2,986,989	3,504,739	51,075
Industrial	3,870,733	2,459,495	1,411,238	31,155
Agricultural	2,962,862	1,970,039	992,823	21,217
Conservation	275,203	217,157	58,046	1,991
Hotel/resort	4,627,424	1,288,301	3,339,123	40,196
Unimproved residential .	1,210,488	968,657	241,831	5,582

1/ Government parcels assessed at $1.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates, and Exemptions, 1987-1988 Tax Year, State of Hawaii* (July 1987).

Table 318.-- REAL PROPERTY TAX RATES, BY COUNTIES: FISCAL YEAR 1987-1988

[Dollars per $1,000 net taxable value]

Land use class	Honolulu	Maui	Hawaii	Kauai
Land:				
Improved residential	6.56	4.75	8.50	6.45
Unimproved residential	6.56	4.75	10.00	6.45
Apartment	6.56	4.75	10.00	8.70
Hotel/resort	10.71	7.00	10.00	8.70
Commercial	9.45	6.00	10.00	8.70
Industrial	9.45	6.00	10.00	8.70
Agricultural	9.00	4.75	10.00	8.70
Conservation	9.00	4.75	10.00	8.70
Improvement:				
Improved residential	6.56	4.75	8.50	5.81
Unimproved residential	6.56	4.75	8.50	5.81
Apartment	6.56	4.75	8.50	8.25
Hotel/resort	10.71	7.00	8.50	8.25
Commercial	9.45	6.00	8.50	8.25
Industrial	9.45	6.00	8.50	8.25
Agricultural	9.00	4.75	8.50	8.25
Conservation	9.00	4.75	8.50	8.25

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates, & Exemptions, 1987-1988 Tax Year, State of Hawaii (July 1987), p. 8.

Table 319.-- FEDERAL EXPENDITURES IN HAWAII: 1968 TO 1980

[Thousands of dollars. For fiscal years ended June 30 through 1976 and September 30 thereafter]

Fiscal year	Amount	Fiscal year	Amount
1968	848,383	1975	2,060,344
1969	987,814	1976	2,162,221
1970	963,668	1977	2,065,800
1971	1,075,111	1978	2,507,095
1972	1,173,340	1979	2,659,230
1973	1,435,341	1980	3,151,277
1974	1,643,890		

Source: U.S. Office of Economic Opportunity (1968-1975) and U.S. Community Services Administration (1976-1980), Federal Outlays in Hawaii (annual report, 1968-1976) and Geographic Distribution of Federal Funds in Hawaii (annual report, 1977-1980).

Table 320.-- FEDERAL EXPENDITURES IN HAWAII, BY TYPES: FISCAL YEARS 1981 TO 1986

[Millions of dollars]

Type of expenditure	1981	1982	1983	1984	1985	1986
All categories	3,811	3,506	4,055	4,232	4,568	4,643
Grants to State and local governments	443	408	457	459	436	473
Salaries and wages	1,487	1,615	1,736	1,809	1,942	1,961
Direct payments for individuals	1,008	1,106	1,253	1,321	1,444	1,517
Procurement	857	358	535	577	672	619
Other programs	17	19	74	66	73	73
Department of Defense	2,223	1,932	2,198	2,324	2,553	2,486
Other federal agencies	1,588	1,573	1,857	1,908	2,015	2,158

Source: U.S. Bureau of the Census, Federal Expenditures by State for Fiscal Year 1986 (March 1987), pp. 1, 37, and 38-40, and letter dated April 29, 1986.

Table 321.-- DIRECT FEDERAL EXPENDITURES OR OBLIGATIONS IN HAWAII, BY COUNTIES: FISCAL YEAR 1985

[Thousands of dollars]

County	All agencies	Department of Defense	All other agencies
State total 1/	4,575,478	2,551,638	2,023,840
City and County of Honolulu ..	3,989,585	2,499,695	1,489,890
Hawaii County	219,625	17,521	202,104
Kauai County	85,804	14,328	71,476
Maui County	175,646	20,094	155,552
State undistributed	104,817	-	104,817

1/ Figures differ somewhat from those in preceding table, because of treatment of Federal grants to State and local governments. In preceding table, figure represented actual expenditures; in this table, Federal grants generally represent obligations and include payments to State and local governments, and grants to nongovernmental recipients (see source, p. viii).

Source: U.S. Bureau of the Census, Consolidated Federal Funds Report, Fiscal Year 1985, Vol. I: County Areas (March 1986), pp. 14-15.

Table 322.-- STATE GENERAL OBLIGATION BOND DEBT: 1981 TO 1986

[In dollars. As of June 30]

Year	Debt	Year	Debt
1981	1,331,326,266	1984	1,641,694,840
1982	1,464,486,784	1985	1,697,635,620
1983	1,590,350,534	1986	1,734,971,350

Source: Hawaii State Department of Accounting and General Services,records.

Table 323.-- PUBLIC BONDED DEBT OF STATE AND COUNTY GOVERNMENTS: 1960 TO 1986

[In millions of dollars. As of December 31]

Year	Total bonded debt 1/	State debt	County debt			
			Honolulu	Maui	Hawaii	Kauai
1960	285.6	143.1	120.8	10.0	3.2	8.6
1961	306.8	145.4	138.1	12.1	3.0	8.2
1962	312.7	149.1	141.4	11.6	2.8	7.8
1963	386.5	194.6	168.2	13.8	2.6	7.4
1964	423.6	220.0	177.6	13.0	3.9	9.1
1965	454.1	244.5	184.1	12.3	3.6	9.6
1966	412.3	205.6	182.8	11.4	3.4	9.0
1967	472.9	262.4	188.2	10.6	3.2	8.4
1968	533.8	317.9	191.6	9.7	2.9	11.7
1969	631.3	423.1	185.8	11.0	8.8	2.7
1970	742.0	536.1	172.5	10.4	17.9	5.1
1971	925.5	679.3	198.9	25.4	17.1	4.9
1972	1,080.4	804.1	215.8	24.6	26.3	9.6
1973	1,219.4	944.1	212.1	23.9	25.0	14.3
1974	1,274.4	1,005.2	198.5	23.2	33.6	13.9
1975	1,435.9	1,185.6	182.8	22.4	31.8	13.3
1976	1,667.2	1,385.9	211.0	21.0	36.9	12.4
1977	1,775.7	1,483.1	226.9	19.6	34.6	11.5
1978	1,916.8	1,607.1	238.5	18.2	37.3	15.7
1979	1,971.9	1,677.6	224.3	16.8	38.3	14.9
1980	2,054.3	1,764.9	207.5	22.4	45.6	13.8
1981	2,217.9	1,883.6	235.5	21.1	46.2	31.4
1982	2,359.5	2,039.3	235.5	19.8	45.8	19.0
1983	2,545.4	2,235.8	219.5	19.0	52.1	19.0
1984	2,715.7	2,391.5	221.0	33.5	50.9	18.8
1985	3,131.5	2,621.2	404.0	30.8	56.7	18.8
1986	3,311.8	2,720.4	456.8	47.2	69.3	18.0

1/ Outstanding state and county bonds, both general obligation and revenue bonds.

Source: Tax Foundation of Hawaii, A Compendium of Government Finances in Hawaii, 1949-1968 (November 1969), p. 71, and Government in Hawaii (annual).

Table 324.-- GOVERNMENT WORKERS, BY LEVEL OF GOVERNMENT, CIVIL SERVICE STATUS, AND MEMBERSHIP IN STATE RETIREMENT SYSTEM: 1889 TO 1986

Year	Government workers 1/				State civil service workers 3/	State retirement system members 4/
	All levels	Federal	State 2/	County		
1889	(NA)	(NA)	1,796	-	-	-
1926	6,566	(NA)	(NA)	(NA)	(NA)	2,028
1940	22,136	11,139	6,245	4,752	2,616	8,352
1945	78,846	66,248	7,231	5,367	3,772	12,662
1950	33,140	18,891	7,955	6,294	5,280	16,120
1960	49,510	27,010	14,620	7,880	6,790	24,092
1970	73,640	33,380	30,600	9,660	10,166	38,912
1980	89,050	30,000	45,150	13,900	17,327	48,868
1985	93,300	32,400	47,400	13,500	18,472	51,767
1986	93,850	32,100	48,600	13,150	18,411	47,662

NA Not available.

1/ As of August 31, 1889, Spring 1926, and annual averages thereafter.

2/ Kingdom of Hawaii for 1889, Territory of Hawaii for 1926-1950, and State of Hawaii, thereafter.

3/ December 31 through 1960 and June 30 thereafter. State or Territorial workers in civil service system. Data exclude county employees, also covered by civil service for much of this period. Coverage was granted to Territorial Board of Health and Honolulu Fire Department and Police Department employees in 1913 and was extended to most Territorial and county employees in 1939.

4/ June 30 through 1960 and March 31 thereafter. Includes State or Territorial employees, county employees, and inactive members (those no longer employed by the State, Territory, or counties who have remained in the System), but excludes pensioners. Pension plans were established for teachers in 1915 and police, fire, and band employees in 1917. The present Employees' Retirement System, open to all Territorial and county workers, was established in 1926.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1978), pp. 202-203 and 616-617; The State of Hawaii Data Book 1978, p. 158; Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978, as updated); Hawaii State Department of Personnel Services, Annual Report for 1980-1986; Employees' Retirement System of the State of Hawaii, 58th Annual Report, June 30, 1984, p. 17, as updated; Robert M. C. Littler, The Governance of Hawaii (Stanford University Press, 1929), pp. 74 and 118.

Table 325.-- STATE CIVIL SERVICE: 1984 TO 1986

[Years ended June 30. The State civil service system does not cover elected or appointed officials, public school teachers, university faculty, and other exempt positions]

Subject	1984	1985	1986
Civil service employees, June 30	18,202	18,472	18,411
Department of Education	3,875	4,024	3,998
Department of Health	4,729	4,747	4,636
Department of Social Services and Housing	2,472	2,551	2,705
Department of Transportation	1,913	1,895	1,864
University of Hawaii	1,562	1,563	1,539
All others	3,651	3,692	3,669
Separations	2,079	1,751	1,919
Promotions 1/	760	613	685
Transfers, demotions, and returns after promotions 1/	688	765	788
Classification actions processed	2,414	3,107	3,144
Applications received	27,084	24,681	24,521
Applicants screened	27,209	25,484	22,357
Applicants placed on eligible list	10,741	12,323	15,373
Vacancies filled by competitive and noncompetitive actions	2,269	2,034	2,160

1/ 1984 data revised from Data Book 1985, table 290.

Source: Hawaii State Department of Personnel Services, Annual Report, 1986, pp. 4, 6, 8, and 9.

Table 326.-- GOVERNMENT WORKERS, BY LEVEL OF GOVERNMENT, SEX, AND RACE: 1980

Level of government	Total	Sex		Race		
		Male	Female	White	Asian, Pacific Islander	Other races
All levels	90,401	48,400	42,001	23,366	64,456	2,579
Federal	32,244	21,441	10,803	9,943	20,957	1,344
State	43,814	17,046	26,768	10,285	32,736	793
Local	14,343	9,913	4,430	3,138	10,763	442

Source: U.S. Bureau of the Census, 1980 Census of Population, Detailed Population Characteristics, Hawaii, PC80-1-D13 (October 1983), table 220.

Table 327.-- STATE SALARY SCHEDULES FOR SELECTED LEVELS: 1985 TO 1987

[In dollars per month. As of July 1. Data refer to lowest and highest rates among six bargaining units and excluded managerial compensation plan employees classified under the salary range schedules]

Salary range	Lowest			Highest		
	July 1985	July 1986	Oct. 1987	July 1985	July 1986	Oct. 1987
SR-4	933	933	988	1,360	1,520	1,596
SR-11	1,151	1,151	1,206	1,816	1,985	2,084
SR-21	1,668	1,668	1,723	2,859	3,002	3,152
SR-31	2,596	2,620	2,675	4,596	4,799	5,039

Source: Hawaii State Department of Personnel Services, salary schedules and conversion tables.

Table 328.-- SALARIES OF SELECTED GOVERNMENT OFFICIALS: 1926, 1976, 1986, AND 1987

[Annual rates, in dollars, as of January 1]

Government official	1926	1976	1986 1/	1987
Governor	10,000	50,000	80,000	80,000
Lieutenant Governor 2/	5,400	45,000	76,000	76,000
Mayor, Honolulu	6,000	44,903	75,000	77,175
Mayor, Hawaii 3/	4,200	43,644	49,992	63,792
Mayor, Maui 3/	4,200	36,070	62,000	62,000
Mayor, Kauai 3/	3,600	34,000	49,920	52,416
Chief Justice, Supreme Court	10,500	47,500	80,000	80,000
Associate Justice, Supreme Court	10,000	45,000	78,500	78,500
President, University of Hawaii	10,000	45,000	95,000	95,000

1/ Includes retroactive raises approved May 12, 1986.
2/ Secretary in 1926.
3/ Chairman, Board of Supervisors, in 1926.

Source: Robert M. C. Littler, The Governance of Hawaii (1929), pp. 114, 117, 118, 189, and 204; Hawaii Revised Statutes; SLH 1986, Act 128; Salary Commission of the City and County of Honolulu, Final Report and Salary Schedule; Hawaii, Maui, and Kauai County ordinances; DBED telephone survey.

Section 10

NATIONAL DEFENSE

This section presents statistics relating to the armed forces and their dependents, national guard strength, civilian employment in national defense, veterans, land controlled by the Department of Defense, military housing, and expenditures by the armed forces. Further information appears in sections 1, 2, 6, 12, 13, 14, and 23.

There were approximately 60,300 officers and enlisted men (including 4,000 aboard ships homeported in Hawaii) and 64,800 military dependents in the Islands as of July 1, 1987. This number has been relatively stable in recent years, but at the height of World War II more than 400,000 uniformed personnel were present. The Navy alone accounts for one-third of the current total. Almost 11,000 Hawaii residents were in the armed forces worldwide in 1987. The importance of national defense in Hawaii can be further measured by total expenditures ($1.8 billion), military prime contract awards ($563 million), civilian employment (20,400), veterans in civil life (101,000), military personnel receiving retired pay (10,600, receiving $12.3 million monthly), military-connected pupils in public schools (19,900), military housing (19,200 units), and land owned or controlled by the armed forces (over 265,000 acres). Defense expenditures are second only to tourism as a source of income to Hawaii.

The Department of Business and Economic Development has issued periodic reports on Military Personnel and Dependents in Hawaii since 1959. Other published sources include reports of the U.S. Department of Defense, U.S. Bureau of the Census, Administrator of Veterans Affairs, and the Hawaii State Department of Labor and Industrial Relations, Department of Defense, and Department of Education. Definitions used by these sources frequently differ to some degree, and care is accordingly necessary in comparing data issued by two or more agencies. In mid-1982, for example, the number of armed forces in Hawaii was reported as 53,915 by DOD, 54,879 by the Bureau of the Census, and 61,107 by the local commanding officers reporting to DBED. Historical Statistics of Hawaii, Section 26, includes series on the armed forces dating back to 1795. Section 11 of the Statistical Abstract of the United States: 1987 presents data on national defense and veterans affairs for other states and the entire nation.

Table 329.-- HAWAII RESIDENTS ON ACTIVE DUTY IN THE ARMED FORCES WORLDWIDE: 1970 TO 1987

[As of June 30. Based on home of record]

Year	Number	Year	Number	Year	Number
1970	15,331	1982	11,926	1985	10,827
1975	10,640	1983	11,641	1986	10,882
1980	11,851	1984	11,466	1987	10,896

Source: U.S. Department of Defense, Defense Manpower Data Center, records.

Table 330.-- DEPARTMENT OF DEFENSE PERSONNEL AND DEPENDENTS: 1980 TO 1986

[As of September 30]

Year	Active-duty shorebased military personnel 1/	Dependents of active-duty military personnel 2/	Direct-hire civilian personnel 3/
1980	43,313	53,533	18,186
1981	44,141	50,324	18,814
1982	44,470	56,497	19,497
1983	44,651	51,119	20,005
1984	47,648	54,190	20,539
1985	46,875	55,552	20,762
1986	46,122	53,428	20,536

1/ Excludes those performing civilian functions, Navy personnel afloat unless temporarily shorebased, and all Coast Guard personnel.

2/ Includes dependents of Hawaii residents stationed out of the State, if those dependents remained in Hawaii.

3/ Military functions only.

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information, Operations and Reports, Department of Defense Selected Manpower Statistics (annual).

Table 331.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES: 1970 TO 1987

[Includes Navy, Marine Corps, and Coast Guard personnel afloat on a homeported basis. Data differ somewhat from similar series compiled by the Bureau of the Census and Department of Defense, reported elsewhere in this volume]

Date	Personnel and dependents	Military personnel 1/			Dependents in Hawaii	Military families
		Total	Ashore	Aboard ship		
1970: April 1 ..	117,943	56,085	41,362	14,723	61,858	20,558
July 1 ...	111,549	53,768	39,822	13,946	57,781	20,568
1971: July 1 ...	112,943	50,762	35,824	14,938	62,181	23,184
1972: July 1 ...	118,760	52,538	37,124	15,414	66,222	23,688
1973: July 1 ...	128,082	57,783	43,064	14,719	70,299	25,264
1974: July 1 ...	126,882	58,558	45,369	13,189	68,324	29,082
1975: July 1 ...	121,911	58,205	45,589	12,616	63,706	26,122
1976: July 1 ...	126,694	59,737	46,453	13,284	66,957	26,395
1977: July 1 ...	123,471	58,466	45,811	12,655	65,005	25,927
1978: July 1 ...	119,200	58,106	46,001	12,105	61,094	25,400
1979: July 1 ...	122,386	57,868	44,915	12,953	64,518	27,835
1980: April 1 ..	125,042	61,019	48,813	12,206	64,023	26,129
1981: July 1 ...	125,865	61,521	46,255	15,266	64,344	25,893
1982: July 1 ...	127,816	61,107	54,184	6,923	66,709	26,009
1983: July 1 ...	125,273	59,021	53,755	5,266	66,252	26,791
1984: July 1 ...	127,887	60,804	56,321	4,483	67,083	31,415
1985: July 1 ...	122,286	58,005	53,848	4,157	64,281	29,997
1986: July 1 ...	124,794	58,584	53,616	4,968	66,210	29,481
1987: July 1 ...	125,127	60,277	56,322	3,955	64,850	32,038

1/ Beginning in 1982, ship crews living ashore are included with the ashore total.

Source: Hawaii State Department of Business and Economic Development, Military Personnel and Dependents in Hawaii, 1987 (Statistical Report 207, November 30, 1987), table 1.

Table 332.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES, BY SERVICE AND ISLAND: JULY 1, 1987

[See headnote to preceding table]

Island and service	Military personnel				Dependents in Hawaii	Military families
	Ashore and afloat	Living ashore		Living aboard ship		
		In hsg. units	In barracks			
State total ..	60,277	37,452	18,870	3,955	64,850	32,038
By island:						
Oahu	59,916	37,174	18,791	3,951	64,581	31,939
Hawaii	169	157	10	2	63	11
Maui	27	25	-	2	49	16
Kauai	141	96	45	-	157	72
Kure Atoll	24	-	24	-	-	-
By service:						
Air Force 1/	6,088	4,716	1,372	-	9,053	4,151
Army	18,790	12,045	6,745	-	23,756	11,888
Coast Guard	1,135	722	109	304	935	432
Marine Corps	10,489	5,364	5,125	-	8,265	4,866
Navy	23,775	14,605	5,519	3,651	22,841	10,701

1/ As of September 30, 1987.

Source: Hawaii State Department of Planning and Economic Development, Military Personnel and Dependents in Hawaii, 1987 (Statistical Report 207, November 30, 1987), table 2.

Table 333.-- NATIONAL GUARD STRENGTH: 1983 TO 1987

[Actual strength as of late June]

Service	1983	1984	1985	1986	1987
Total	5,799	5,866	6,096	5,882	5,814
Air National Guard ...	2,031	2,073	2,227	2,197	2,190
Army National Guard ..	3,768	3,793	3,869	3,685	3,624

Source: Hawaii State Department of Defense, Annual Report for years specified, and records.

Table 334.-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN, BY SERVICE: SEPTEMBER 30, 1986

Category	All services	Army	Navy	Air Force	Other DoD
Total	64,921	23,674	32,077	9,035	135
Military personnel 1/ .	44,168	18,248	19,411	6,509	-
Civilian personnel 2/ .	20,753	5,426	12,666	2,526	135

Footnotes and source follow next table.

Table 335.-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN, BY LOCATION: SEPTEMBER 30, 1986

Installation or geographic area	Total DoD	Military personnel 1/	Civilian personnel 2/
State total	64,921	44,168	20,753
Aiea	976	706	270
Barbers Point NAS	2,278	1,888	390
Ford Island	437	400	37
Fort Shafter	2,013	-	2,013
Halawa Heights	189	155	34
Hickam AFB	8,680	6,463	2,217
Honolulu	2,466	2,077	389
Kaneohe	8,336	7,642	694
Kapalama	273	30	243
Kauai	220	130	90
Kunia	1,454	1,417	37
Lualualei	480	221	259
Pearl Harbor	18,059	7,294	10,765
Schofield Barracks	14,421	13,267	1,154
Tripler Army Medical Center	1,139	10	1,129
Wahiawa	814	612	202
Waialua	557	521	36
Wheeler AFB	1,633	1,143	490
Other	496	192	304

1/ Active duty. Navy figure is limited to shore-based personnel and excludes personnel afloat and temporary shore-based.

2/ Direct hire.

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, Department of Defense Distribution of Personnel by State and by Selected Locations, September 30, 1986, p. 28.

Table 336.-- CIVILIAN EMPLOYMENT IN THE AIR FORCE, ARMY, AND NAVY: ANNUAL AVERAGES, 1981 TO 1986

Year	Total	Air Force	Army	Navy
1981	19,400	2,600	4,300	12,500
1982	20,400	2,650	4,650	13,100
1983	20,850	2,650	4,850	13,350
1984	20,600	2,650	5,000	12,950
1985	20,750	2,650	5,400	12,700
1986	20,400	2,650	5,600	12,150

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1987.

Table 337.-- MILITARY PRIME CONTRACT AWARDS, BY SERVICE: 1983 TO 1986

[In thousands of dollars. Fiscal years ended September 30. Net value of Department of Defense prime contracts over $25,000]

Fiscal year	Total	Army	Navy & Marine Corps	Air Force	Other defense activities
1983	638,975	117,573	187,355	36,806	297,241
1984	536,735	185,074	158,068	52,719	140,874
1985	626,153	255,236	152,782	59,939	158,196
1986	562,843	147,587	160,701	46,484	208,071

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, Department of Defense Atlas/Data Abstract for the United States and Selected Areas, Fiscal Year 1986, p. 33.

Table 338.-- DEFENSE EXPENDITURES: 1976 TO 1986

[In thousands of dollars. Does not include military retired pay, Hawaii National Guard expenditures, or U.S. Army Corps of Engineers contracts]

Year	All categories	Military payroll	Civilian payroll	Supplies, equipment, services
1976	1,034,226	420,051	301,347	312,828
1977	1,086,561	432,754	325,778	328,029
1978	1,155,517	465,449	354,530	335,538
1979	1,221,784	497,840	372,596	351,348
1980	1,317,402	533,691	418,759	364,952
1981	1,449,328	612,761	450,684	385,883
1982	1,693,410	716,841	508,569	468,000
1983	1,848,175	793,782	558,220	496,175
1984	1,867,189	828,787	582,531	455,872
1985 1/	1,965,430	839,851	611,437	514,138
1986 1/	1,784,868	822,954	601,476	360,437
SERVICE: 1985				
Air Force	201,026	109,391	36,927	54,707
Army	780,389	389,132	142,664	248,591
Coast Guard	28,743	21,804	4,009	2,929
Navy and Marine Corps 1/	955,272	319,524	427,837	207,911
SERVICE: 1986				
Air Force	202,407	106,788	38,708	56,912
Army	658,609	385,013	149,253	124,343
Coast Guard	31,855	25,170	3,765	2,919
Navy and Marine Corps 1/	891,996	305,983	409,750	176,263

1/ Military payroll partly estimated due to change in reporting method.

Source: Quarterly reports submitted to DPED by armed forces.

Table 339.-- ACREAGE OWNED OR CONTROLLED BY THE U.S. DEPARTMENT OF DEFENSE, BY BRANCH OF SERVICE AND BY ISLANDS: APRIL 1987

Branch of service and island	Total acreage	Owned in fee	Ceded land 1/	Other land 2/
All branches	265,402	26,406	146,187	92,809
Branch of service:				
Air Force	6,081	2,496	2,827	757
Army	165,807	4,058	101,688	60,061
Navy and Marine Corps	93,514	19,851	41,672	31,991
Island:				
Hawaii	108,928	4	84,819	24,105
Maui	8	5	-	-
Kahoolawe	28,777	-	28,777	-
Lanai	-	-	-	-
Molokai	6,319	-	12	6,307
Oahu	93,888	26,397	30,546	36,945
Kauai	27,371	-	1,925	25,446
Niihau	3	-	-	3
Kaula	108	-	108	-
Northwestern Hawaiian Islands, exc. Midway ...	-	-	-	-

1/ Includes 4,962 acres of submerged Navy land in Pearl Harbor.

2/ Held under lease, license, or permit. Includes 31,283 acres of Navy land used for intermittent training with no permanent occupancy and subject to restrictions.

Source: Data submitted to the Hawaii State Department of Business and Economic Development by the armed forces.

Table 340.-- HOUSING UNITS OWNED BY THE ARMED FORCES: 1986 AND 1987

[As of April 1]

Year	All services	Air Force	Army	Coast Guard	Navy and Marines
1986	19,210	2,953	7,122	315	8,820
1987	19,211	2,953	7,129	315	8,814

Source: Hawaii State Department of Business and Economic Development, Housing Unit Estimates for Hawaii, 1970-1987 (Statistical Report 204, October 23, 1987), tables 1 and 8, and underlying data.

Table 341.-- VETERANS IN CIVIL LIFE: 1977 AND 1987

Period of service	March 31, 1977	March 31, 1987
Total veterans 1/	94,000	101,000
Wartime veterans 1/	81,000	80,000
Vietnam era	33,000	37,000
Korean conflict	21,000	21,000
World War II	32,000	32,000
World War I	1,000	(Z)
Peacetime veterans	13,000	21,000
Post-Vietnam era only 2/	1,000	9,000
Between Korea and Vietnam only	12,000	11,000
Other peacetime veterans 3/	...	1,000

Z Under 500.

1/ Veterans who served in more than one conflict are counted only once in the totals and subtotals.

2/ Service only after May 7, 1975.

3/ Includes those who served only between World War I and World War II, and those who served only between World War II and the Korean conflict.

Source: Veterans Administration, Veteran Population (semi-annual report).

Table 342.-- VETERAN STATUS BY COUNTIES: 1980

Subject	State total	Counties				
		Hawaii	Honolulu	Kalawao	Kauai	Maui
Male veterans	98,633	10,117	77,356	12	4,133	7,015
Percent of civilian males, 16 years and over	31.1	29.9	32.0	13.6	28.4	26.4
Female veterans	5,141	359	4,381	-	129	272
Percent of civilian females, 16 years and over	1.5	1.1	1.6	0	0.9	1.0

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 70 and 179.

Table 343.-- MILITARY PERSONNEL RECEIVING RETIRED PAY FROM THE DEPARTMENT OF DEFENSE: SEPTEMBER 30, 1986

Service	Number of personnel		Monthly payment 2/ ($1,000)	Payment per person paid 2/ (dollars)
	Retired 1/	Paid by DOD		
Dept. of Defense	11,523	10,582	12,341	1,166
Army	4,721	4,230	4,605	1,089
Navy	3,180	2,949	3,464	1,175
Marine Corps	813	731	950	1,300
Air Force	2,809	2,672	3,322	1,243

1/ Includes retired personnel not receiving retired pay from the Department of Defense.

2/ Before deductions for withholding taxes and allotments, but after deductions for survivor benefits, dual compensation, etc.

Source: U.S. Department of Defense, Office of the Actuary, Defense Manpower Data Center, FY 1986 DOD Statistical Report on the Military Retirement System (1987), p. 20.

Table 344.-- WAR CASUALTIES OF HAWAII RESIDENTS IN THE ARMED FORCES: 1914 TO 1976

[Data refer to U.S. military personnel whose home state or pre-service residence of record was Hawaii]

War	Personnel serving	Battle deaths	Nonbattle deaths	Wounded
World War I 1/	9,800	102		(NA)
World War II	28,008	658	138	(NA)
Korean conflict	(NA)	403	(NA)	923
Vietnam conflict	12,970	221	51	(NA)

NA Not available.

1/ Data include nearly 200 Hawaii residents serving (and 22 dying) with the British armed forces, many prior to the U.S. entry into World War I. Of the 102 war casualties, only 14 occurred overseas prior to the armistice; 61 took place in Hawaii or North America or after the armistice, and the time or place of 27 is unknown.

Source: Hawaii State Department of Planning and Economic Development, Military Personnel and Dependents in Hawaii, July 1977 (Statistical Report 120, September 9, 1977), tables 6 and 7.

Section 11

SOCIAL INSURANCE AND HUMAN SERVICES

This section presents data related to governmental expenditures on social welfare; programs for old-age, survivors, disability and health insurance; public employee retirement; unemployment insurance; aid to the needy; and child and other welfare services. Also included here are selected statistics on United Way campaigns, foundations, and the quality of life. Related data are cited in Sections 9 and 13.

Total social welfare costs reached $329 million in fiscal 1986, compared with $168 million a decade earlier. About 55 percent of the 1986 total came from State funds and the remainder from the Federal government. The monthly average number of persons served by major welfare programs in 1986 was 56,000, or 5.3 percent of the resident population of the State. Over 56 percent of all public assistance payments and almost half of all recipient cases were accounted for by aid to families with dependent children. The average monthly payment per case for public assistance was $368, or 25 percent more than in 1976. Participation in the food stamp program included 36,000 households and 94,000 persons. Among workers receiving unemployment compensation in 1986, weekly benefits averaged $140. About 134,000 Hawaii residents were receiving Social Security benefits in 1986, and about 97,000 were enrolled for Medicare. There were also 17,000 State and county government pensioners in 1986, with annual benefits of $168 million. Child adoptions in 1986 numbered 544. Sixty-eight foundations reported assets of $165 million when most recently surveyed. The United Way reported agency allocations of $8.6 million on Oahu and $1.7 million on the Neighbor Islands in 1985. A recent comparative study of the "quality of life" in 300 American metropolitan areas ranked Honolulu fifty-eighth.

Major data sources include reports and records of the U.S. Department of Health and Human Services, the Hawaii State Department of Human Services (formerly Social Services and Housing), the Hawaii State Department of Labor and Industrial Relations, the Hawaii State Employees' Retirement System, and the Aloha United Way. Historical Statistics of Hawaii, Section 8, contains data for earlier years. Section 12 of the Statistical Abstract of the United States: 1987 presents comparable Mainland data.

Table 345.-- PERSONS SERVED AND AVERAGE PAYMENTS, FOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF SOCIAL SERVICES AND HOUSING: 1976 TO 1986, MONTHLY AVERAGES

[Years ended June 30]

Year	Major programs 1/		Service cases 2/	Medical payments 3/		Average money payments 4/ (dollars)	
	Recipients	Individuals		Cases	Individuals	Per case	Per individual
1976	24,438	67,226	9,067	10,825	11,675	295.17	106.72
1977	36,534	72,054	12,610	12,303	13,329	307.76	114.52
1978	28,575	75,485	15,000	14,381	15,572	321.63	121.75
1979	27,399	72,928	16,993	13,796	14,890	334.90	150.99
1980	27,219	71,693	16,312	12,932	13,598	337.59	128.17
1981	27,604	72,480	15,281	11,763	12,104	342.67	130.68
1982	26,130	68,835	8,124	11,629	12,228	355.42	135.05
1983	24,157	64,305	6,443	12,858	13,186	371.00	139.56
1984	23,378	62,430	6,586	12,642	12,939	369.92	138.72
1985	22,212	59,561	6,832	12,519	12,286	368.17	137.50
1986	21,119	56,140	7,186	12,710	12,481	368.25	138.67
COUNTIES: 1986							
Hawaii ..	4,184	11,233	1,002	1,741	1,693	374.08	139.48
Maui	1,432	4,074	583	918	902	371.42	130.73
Honolulu	14,634	38,423	4,946	9,367	9,215	366.83	139.90
Kauai ...	869	2,410	653	684	671	356.42	128.76

1/ Old age assistance, aid to disabled, aid to families with dependent children, AFDC unemployed parents, AFDC foster care, child welfare foster care, and general assistance.

2/ Data for 1976 and 1977 are quarterly averages.

3/ Ineligible for money assistance, receiving medical payment only.

4/ Gross obligation basis.

Source: Hawaii State Department of Social Services and Housing, records.

Table 346.-- PUBLIC WELFARE CASELOAD, BY COUNTIES AND CENSUS TRACTS: AUGUST 1987

County and tract 1/	Individuals served	Rate 2/
State	46,674	43.9
Honolulu	31,593	38.7
1	114	4.2
2	74	13.7
3	33	6.0
4	12	1.8
5	9	1.9
6	9	5.3
7	29	8.7
8	57	13.7
9	78	8.2
10	35	10.7
11	695	169.3
12	161	23.3
13	66	14.5
14	47	16.6
15	51	13.1
16	74	16.1
17	18	6.9
18	333	74.2
19	217	24.1
20	362	41.6
21	155	42.0
22	316	44.2
23	192	38.3
24	249	40.7
25	104	27.8
26	76	15.8
27	136	12.8
28	33	8.1
29	9	5.5
30	24	5.2
31	29	3.7
32	23	20.0
33	4	3.6
34	610	32.0
35	118	26.9
36	212	27.7
37	42	17.3
Honolulu, con.:		
38	13	36.6
39	61	291.9
40	7	5.7
41	166	38.8
42	30	11.4
43	224	42.2
44	140	26.5
45	38	7.1
46	64	16.3
47	48	9.6
48	246	39.7
49	61	19.5
50	97	22.8
51	128	62.2
52	67	50.6
53	71	15.7
54	402	234.0
55	132	62.9
56	197	32.3
57	168	82.3
58	280	80.3
59	213	58.0
60	275	50.1
61	97	28.3
62	1,348	183.2
63	740	117.4
64	254	34.4
65	156	38.5
66	4	1.5
67	97	9.4
68	546	19.2
69	2	0.6
70	6	1.4
71	3	1.2
72	2	1.1
73	1	0.2
74	1	0.1
75	373	28.8
76	145	89.8

Continued on next page.

Table 346.-- PUBLIC WELFARE CASELOAD, BY COUNTIES AND CENSUS TRACTS: AUGUST 1987 -- Con.

County and tract 1/	Individuals served	Rate 2/	County and tract 1/	Individuals served	Rate 2/
Honolulu, con.:			Hawaii, con.:		
77	137	14.4	203	640	149.1
78	411	14.9	204	784	195.9
80	523	16.8	205	792	139.0
81	1	0.4	206	502	135.6
83	232	18.7	207	375	48.8
84	715	93.3	208	388	55.3
85	2	0.7	209	192	66.9
86	411	29.5	210	1,095	155.2
87	1,958	134.1	211	2,090	445.1
88	88	17.9	212	341	92.2
89	1,455	28.2	213	305	85.7
90	10	4.1	214	245	104.1
91	100	26.9	215	295	38.8
92	258	33.9	216	474	77.2
93	490	109.3	217	257	55.8
94	627	123.3	218	142	43.7
95	41	2.2	219	242	73.6
96	3,585	225.5	220	34	18.5
97	1,778	154.6	221	48	28.6
98	1,358	225.7	Unknown	43	...
99	662	76.6			
100	91	48.0	Maui	3,216	36.7
101	355	63.2	301	104	73.1
102	969	97.5	302	284	29.2
103	755	42.0	303	94	55.9
105	797	49.5	304	271	10.9
106	212	26.1	305	67	158.5
107	96	12.2	306	1	304.5
108	8	0.7	307	225	0.2
109	434	31.8	308	35	142.0
110	28	6.6	309	302	5.4
111	273	15.3	310	85	73.1
112	92	13.9	311	372	8.2
113	776	83.5	312	63	143.0
Unknown	156	...	313	12	110.1
			314	99	1.8
Hawaii	10,174	91.0	315	17	27.3
201	380	72.2	316	37	8.0
202	510	291.8	317	731	10.4

Continued on next page.

Table 346.-- PUBLIC WELFARE CASELOAD, BY COUNTIES AND CENSUS TRACTS: AUGUST 1987 -- Con.

County and tract 1/	Individuals served	Rate 2/	County and tract 1/	Individuals served	Rate 2/
Maui, con.:			Kauai, con.:		
318	401	313.6	404	227	49.5
Unknown	16	...	405	3	0.8
			406	60	15.5
			407	217	44.7
Kauai	1,691	36.5	408	90	28.9
401	114	42.7	409	241	45.9
402	176	29.2	410	23	101.8
403	535	119.8	Unknown	5	...

1/ See maps, pp. 24-26.

2/ Cases per 1,000 population. Census tract rates based on 1984 census tract estimates for the City and County of Honolulu and 1980 census tract counts for the Neighbor Islands. County and State rates based on 1986 resident population estimates.

Source: Hawaii State Department of Human Services, records.

Table 347.-- PERCENT OF RESIDENT POPULATION SERVED BY MAJOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF SOCIAL SERVICES AND HOUSING, BY COUNTIES: 1985 AND 1986

[Based on fiscal year program data and July population estimates]

Year	State	Hawaii	Maui	Honolulu	Kauai
1985	5.7	9.9	5.2	5.2	5.3
1986	5.3	10.0	4.7	4.7	5.2

Source: Hawaii State Department of Social Services and Housing, records; DBED, Statistical Report 201, table 5.

Table 348.-- SOCIAL WELFARE COSTS: 1976 TO 1986

[Thousands of dollars. Years ended June 30]

Year	Total cost	By source of funds		By expenditure category			
		Federal	State	Administration	Medical payments	Money payments	Social service costs
1976	168,440	67,629	100,811	10,701	60,685	87,956	9,098
1977	194,203	79,151	115,052	13,505	69,677	100,322	10,699
1978	230,111	93,490	136,621	14,206	93,399	111,275	11,231
1979	244,898	101,411	143,487	15,250	104,694	113,854	11,100
1980	255,280	109,734	145,547	18,999	112,024	112,793	11,464
1981	286,709	131,652	155,057	19,595	135,541	118,346	13,227
1982	289,391	121,911	167,480	22,271	143,068	114,811	9,241
1983	303,782	133,498	170,284	26,616	157,996	111,185	7,985
1984	335,986	148,902	187,084	35,482	185,730	107,508	7,266
1985	294,406	127,052	167,354	33,604	145,559	103,611	11,632
1986	328,804	147,865	180,939	41,637	175,887	98,738	12,541

Source: Hawaii State Department of Social Services and Housing, records.

Table 349.-- HOUSEHOLD INCOME IN 1979 FROM SOCIAL SECURITY AND PUBLIC ASSISTANCE: 1980

Subject	Social security income	Public assistance income
Households with income of specified type	61,473	25,926
Mean income from specified type	$4,016	$3,161
Mean total income	$22,703	$15,534

Source: U.S. Bureau of the Census, *1980 Census of Population, Detailed Population Characteristics, Hawaii*, PC80-1-D13 (October 1983), table 243.

Table 350.-- PUBLIC ASSISTANCE PAYMENTS AND RECIPIENTS: 1985 AND 1986

[Years ended June 30]

Program	Total payments ($1,000)		Recipient cases (monthly average)		Average monthly payment (dollars)	
	1985	1986	1985	1986	1985	1986
All programs	130,022	132,950	33,409	33,756	324	328
Old age assistance 1/ .	11,235	11,813	4,751	4,820	197	204
Aid to the blind 1/ ...	569	550	185	181	255	254
Aid to disabled 1/	18,720	20,583	5,892	6,286	265	273
Aid to families with dependent children 2/	79,483	74,915	16,410	15,429	403	404
Child welfare foster care	1,564	1,907	631	702	207	225
General assistance	18,451	18,152	5,540	5,439	277	278

1/ Assisted through the Federal Social Security Administration, with State supplements (Supplementary Security Payments) included.

2/ Includes AFDC unemployed parent and AFDC foster care.

Source: Hawaii State Department of Social Services and Housing, records.

Table 351.-- PARTICIPATION IN FOOD STAMP PROGRAM: 1985 AND 1986

[Years ended June 30]

Subject	1985	1986
Households, total participating 1/	37,283	35,652
Public assistance recipients	18,377	17,558
Other participants 2/	18,906	18,094
Persons, total participating 1/	99,395	93,862
Public assistance recipients	53,364	50,602
Other participants 2/	46,031	43,260
Value of food stamps given to recipients ($1,000)	89,904	90,431

1/ Monthly averages.

2/ Not receiving public assistance (food stamps only).

Source: Hawaii State Department of Social Services and Housing, records.

Table 352.-- MEDICARE ENROLLMENT, 1985 AND 1986, AND BENEFIT PAYMENTS, 1986

[1986 data estimated]

Coverage	All persons enrolled, July 1		Persons 65 and over enrolled, July 1		Estimated benefit payments 1986 ($1,000)
	1985	1986	1985	1986	
Hospital and/or medical insurance	102,269	104,520	94,459	96,640	210,450
Hospital insurance	99,341	101,530	91,531	93,640	123,690
Supplementary medical insurance	98,255	100,330	91,059	93,110	86,760
Hospital and medical insurance (both)	95,327	97,340	88,131	90,110	...

Source: U.S. Department of Health and Human Services, Health Care Financing Administration, Bureau of Data Management and Strategy, records.

Table 353.-- MEDICARE ENROLLMENT OF PERSONS 65 YEARS OLD AND OVER, BY COUNTIES: JULY 1, 1986

County	Hospital and/or medical insurance	Hospital insurance	Medical insurance
State total	99,447	96,225	95,598
City and County of Honolulu ..	72,107	69,358	68,804
Other counties	27,217	26,746	26,672
Hawaii	12,554	12,367	12,300
Kalawao	88	87	80
Kauai	5,496	5,377	5,420
Maui	9,079	8,915	8,872
County not reported	123	121	122

Source: U.S. Bureau of the Census, Population Division, Population Estimates Branch, memorandum dated October 20, 1987.

Table 354.-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE (OASDI) BENEFITS IN CURRENT-PAYMENT STATUS, BY TYPE OF BENEFIT AND COUNTY: DECEMBER 1986

Type of benefit and county	Number of OASDI benefits	Amount of monthly benefits ($1,000)
Total	133,520	57,629
TYPE OF BENEFIT		
Retirement program:		
Retired workers 1/	88,640	43,052
Wives or husbands 1/	10,390	2,389
Children	4,900	901
Survivor program:		
Widows, widowers, or parents	13,040	5,398
Children	6,440	2,156
Disability program:		
Disabled workers	7,070	3,334
Wives or husbands	660	85
Children	2,380	314
Age 65 and over:		
Men	45,980	25,026
Women	46,850	18,733
COUNTY		
Hawaii	17,800	7,560
Honolulu	94,680	41,004
Kalawao	90	34
Kauai	7,660	3,267
Maui	13,290	5,764

1/ Includes special age 72 beneficiaries.

Source: U.S. Department of Health and Human Services, Social Security Administration, Office of Research and Statistics, records.

Table 355.-- SOCIAL SECURITY POPULATION AGE 65 AND OVER, BY SEX, AGE, AND COUNTY: 1984 AND 1985

[As of June. Persons covered by retirement and survivor insurance, including those in non-payment status]

Subject	1984	1985
Total	85,398	89,964
Sex:		
Male	42,606	44,528
Female	42,792	45,436
Age:		
65 to 69 years	30,881	32,513
70 to 74 years	23,289	24,480
75 to 79 years	15,144	16,081
80 to 84 years	9,255	9,648
85 to 89 years	4,498	4,796
90 to 94 years	1,729	1,820
95 years and over	602	626
County:		
Hawaii	11,206	11,649
Honolulu	61,341	64,885
Kalawao	98	89
Kauai	4,782	5,032
Maui	7,971	8,309

Source: U.S. Department of Health and Human Services, Social Security Administration, Office of Research and Statistics, records.

Table 356.-- SOCIAL SECURITY BENEFICIARIES AND PAYMENTS: 1981 TO 1986

Year	Number of beneficiaries, December	Monthly payments, December ($1,000)	Annual payments ($1,000)
1981	115,670	38,155	435,126
1982	118,690	43,029	498,496
1983	121,061	46,523	536,000
1984	125,012	50,529	578,000
1985	129,475	54,612	626,000
1986	133,520	57,629	667,000

Source: U.S. Department of Health and Human Services, Social Security Administration, Office of Research and Statistics, records.

Table 357.-- HAWAII STATE EMPLOYEES' RETIREMENT SYSTEM: 1981 TO 1986

Year	Member-ship, 1/ March 31	Pen-sioners, March 31	Assets, 2/ June 30 ($1,000)	Total benefits paid 3/ ($1,000)	Average monthly pension 3/ (dollars)	Adminis-tration expenses 3/ (dollars)
1981 ..	49,426	13,012	1,474,543	94,345	416	1,069,419
1982 ..	49,806	13,787	1,668,028	104,935	437	1,373,452
1983 ..	51,578	14,755	1,935,832	124,784	466	1,272,181
1984 ..	51,602	15,264	2,235,686	135,632	491	1,250,890
1985 4/	51,767	16,438	2,326,594	378,087	521	2,292,754
1986 ..	47,662	17,326	2,713,753	168,398	552	1,519,707

1/ State and county employees. Includes former employees who have not withdrawn their contributions but excludes all pensioners. Decline after 1985 primarily reflects corrections in ERS records.

2/ Book value.

3/ Year ended June 30. Data on total benefits paid exclude pensioners' bonus and social security.

4/ Benefits paid total includes refunds to members electing noncontributory retirement plan. Administration expenses total reflects Social Security sick leave recovery claims.

Source: Employees' Retirement System of the State of Hawaii, 59th Annual Report, June 30, 1984, pp. 17 and 36, and records.

Table 358.-- UNEMPLOYMENT INSURANCE: 1976 TO 1986

Calendar year	Covered employment		Insured unemployment		Average weekly total wages (dollars)
	Total	Percent of total jobcount	Total	Percent of total unemployment	
1976 ...	352,550	92	21,480	55	198.21
1977 ...	362,413	92	16,438	55	209.10
1978 ...	384,214	92	11,287	36	223.21
1979 ...	400,311	92	10,381	42	238.91
1980 ...	413,095	93	11,291	56	259.63
1981 ...	417,018	94	12,224	51	276.79
1982 ...	409,511	93	13,657	44	295.25
1983 ...	413,289	93	13,452	45	310.31
1984 ...	422,950	95	11,567	43	321.58
1985 ...	434,637	96	10,091	37	332.90
1986 ...	(NA)	(NA)	8,901	37	(NA)

Calendar year	Gross benefits 1/ ($1,000)	Weekly benefits 1/		Average benefit duration 1/ (weeks)	Exhaustion rate 1/ (percent)
		Maximum (dollars)	Average (dollars)		
1976 ...	71,574	112	83.84	18.9	48.4
1977 ...	55,823	120	88.68	16.4	36.0
1978 ...	45,653	126	91.25	16.2	34.1
1979 ...	39,864	134	93.07	13.5	23.1
1980 ...	49,222	144	102.91	13.7	22.0
1981 ...	66,194	157	113.59	14.2	24.9
1982 ...	77,788	169	124.34	14.8	29.6
1983 ...	70,392	178	123.22	15.8	34.0
1984 ...	70,914	188	135.72	14.8	29.0
1985 ...	62,123	194	134.03	14.6	28.8
1986 ...	56,391	200	140.16	14.3	26.2

NA Not available.

1/ Regular benefits only. Excludes extended benefits.

Source: Hawaii State Department of Labor and Industrial Relations, Unemployment Insurance Fact Book, 1970 to the Present (March 1987), pp. 8, 11, 18, 19, 21, 22, and records.

Table 359.-- CHILD ADOPTIONS: 1982 TO 1986

Type of adoption	1982	1983	1984	1985	1986
Total	603	582	548	550	544
By relatives	388	384	362	382	339
By nonrelatives	215	198	186	168	205
Placed by social agencies ...	127	149	145	121	160

Source: Hawaii State Department of Human Services, tabulations from SRS-NCSS-280 Adoption Card.

Table 360.-- FOUNDATIONS: 1980-1985

[For definition and coverage, see Data Book 1984, table 306, headnote]

Asset level and name of foundation	Fiscal year ended	Assets ($1,000)	Grants made ($1,000)
All non-restricted foundations 1/	Mar. 31, 1980- June 30, 1985	653,275	35,890
Foundations with assets of $10,000,000 or more:			
Irwin Charity Foundation	Dec. 31, 1984	32,389	1,555
Castle (Harold K. L.) Foundation	Dec. 31, 1981	30,364	952
Atherton Family Foundation	Dec. 31, 1984	29,174	1,432
Anthony (Barbara Cox) Foundation	Dec. 31, 1981	21,690	107
McInerny Foundation	Sept. 30, 1982	15,782	825
Castle (Samuel N. and Mary) Foundation	Dec. 31, 1984	11,164	900

1/ Data limited to the 76 foundations open to grant seekers. Excludes 62 restricted foundations.

Source: Alu Like, A Guide to Charitable Trusts and Foundations in the State of Hawaii: 1984 Edition, (Honolulu, Alu Like, 1984), pp. 195-261, and August 19, 1987 printout of entries in the Fondation Directory-Fall 1986 Edition and National Foundations-1987 Edition.

Table 361.-- UNITED WAY REVENUES AND OUTLAYS, BY ISLANDS: 1984 TO 1986

[Dollars]

Year	Five-island total	Aloha United Way (Oahu)	Hawaii Island United Way	United Way of Kauai	Maui United Way	Friendly Isle United Fund
TOTAL REVENUES						
1984	11,651,300	9,560,841	755,285	352,388	927,832	54,954
1985	11,868,630	9,764,131	774,077	349,709	933,932	46,781
1986 1/ .	12,806,549	10,327,358	797,468	359,809	1,264,914	57,000
CONTRIBUTIONS						
1984	11,271,049	9,364,482	729,460	348,720	773,433	54,954
1985	11,517,052	9,574,380	754,473	336,281	805,137	46,781
1986 1/ .	12,257,586	9,836,646	780,422	354,452	1,229,066	57,000
TOTAL OUTLAYS						
1984	11,294,455	9,382,437	766,213	359,515	732,509	53,781
1985	11,602,876	9,586,156	785,509	359,227	825,552	46,432
1986 1/ .	12,454,369	9,984,523	823,840	331,996	1,262,010	52,000
AGENCY ALLOCATIONS						
1984	10,059,227	8,440,574	645,668	318,000	601,204	53,781
1985	10,306,787	8,628,763	658,529	317,250	655,813	46,432
1986 1/ .	10,920,265	8,832,259	688,282	286,440	1,061,284	52,000

1/ Data for Maui United Way cover 18-month period ending June 30, 1987.

Source: Aloha United Way, Annual Report (annual); Hawaii Island United Way, Inc., and Maui United Way, Financial Statements (annual), and records; United Way of Kauai and Friendly Isle United Fund, records.

Table 362.-- QUALITY OF LIFE INDEX RANKINGS, FOR THE STATE, HONOLULU, AND MAUI: 1970 TO 1987

Area ranked and authority	No. of areas ranked	Local rank
State:		
Linsky and Straus 1/	50	17
Honolulu:		
Louis 2/	50	5
Midwest Research Institute 3/	65	31
University of Nebraska 4/	100	7
Boyer and Savageau 5/	277	28
Pierce 6/	277	47
Boyer and Savageau 7/	329	61
ZPG 8/	184	106-118 (tie)
Eisenberg and Englander 10/	300	58
Maui:		
Boyer and Savageau 9/	107	99

1/ Arnold S. Linsky and Murray A. Straus, Social Stress in the United States (Auburn House Publishing Co., 1986), pp. 38-39 and 51. Based on "State Stress Index," calculated from 1976 data.

2/ Arthur M. Louis, "The Worst American City," Harper's Magazine, January 1975, pp. 67-71. Based on 1969-1974 data for the 50 largest U.S. cities (not SMSAs).

3/ Ben-Chieh Liu, Quality of Life Indicators in the U.S. Metropolitan Areas, 1970 (Summary) (Midwest Research Institute, May 1975), p. 53. Based on data for large SMSAs.

4/ Ralph H. Todd, "A City Index: Measurement of a City's Attractiveness," Review of Applied Urban Research (University of Nebraska at Omaha, Center for Applied Urban Research), Vol. 5, No. 7, July 1977, pp. 1-19. Based on data for cities rather than SMSAs.

5/ Richard Boyer and David Savageau, Places Rated Almanac (Rand McNally and Co., 1981), pp. 370 and 374. Based on SMSA data for late 1970s through 1980.

6/ Paper presented by Robert Pierce to Association of American Geographers in Washington, D.C., April 24, 1984; cited in Rick Carroll, "Most Livable? Honolulu rated 47th best city, based on 9 factors," Honolulu Advertiser, April 25, 1984, p. A-3. Based on data for SMSAs.

7/ Richard Boyer and David Savageau, Places Rated Almanac, 2nd ed. (Rand McNally and Co., 1985), p. 424. Based on SMSA data for late 1970s through 1984.

8/ Zero Population Growth, Inc., ZPG's 1985 Urban Stress Test (1985). Based on 1979-1985 data for large cities rather than SMSAs.

9/ Richard Boyer and David Savageau, Places Rated Retirement Guide (Rand McNally and Co., 1983), p. 173. Ratings based on suitability for retired persons.

10/ Richard Eisenberg and Debra Wishik Englander, "The Best Places to Live in America," Money, August 1987, pp. 34-44. Based on SMSA data.

Section 12

LABOR FORCE, EMPLOYMENT, AND EARNINGS

This section presents statistics on the size and composition of the labor force, employment by occupation, industry, class of worker, and place of work, wage rates, payrolls, hours, industrial safety, work disability, unionization, and strikes. Related series appear in Sections 3, 9, 10, and 19 through 23.

The civilian labor force averaged 489,000 in 1986; of this total, 465,000 persons were employed and 24,000 were unemployed and seeking work. The civilian jobcount rose from 387,000 in 1976 to 485,000 a decade later. (The jobcount differs from employment because the latter counts multiple jobholders -- "moonlighters" -- only once.) Areas with large concentrations of workers in 1980 included downtown Honolulu (46,000), Waikiki (30,000), and Pearl Harbor-Hickam (15,000). The unemployment rate averaged 4.9 percent in 1986, with individual island levels ranging from 4.4 to 13.5 percent. By occupation, one out of four civilian workers is classified as professional or managerial. Activities with especially large numbers of employees include services (119,000 in 1986), retail trade (97,000), and government (94,000). The average annual earnings of wage and salary workers under the Hawaii Employment Security Law reached $18,100 in 1986, or 5.6 percent less than the 1976 average after adjustment for inflation. Average weekly hours in 1986 ranged from 31.0 (for retail trade) to 42.4 (for communication and utilities). Labor union membership was estimated at 157,000 in 1985. Work stoppages in 1986 involved 1,300 workers.

Principal sources for the data on labor force, employment, place of work, hours, earnings, unions and strikes are the decennial reports of the U.S. Bureau of the Census, the same agency's Current Population Survey, reports by the U.S. Bureau of Labor Statistics, monthly and annual tabulations by the Hawaii State Department of Labor and Industrial Relations, and annual surveys of pay rates by the Hawaii Employers Council. Historical Statistics of Hawaii, Section 4, includes figures for earlier years. Statistics for the nation as a whole are published in Section 13 of the Statistical Abstract of the United States: 1987.

Table 363.-- LABOR FORCE STATUS, BY SEX: 1950 TO 1980

Sex and labor force status	1950 1/	1960	1970	1980
BOTH SEXES				
Persons 16 years and over	351,375	402,937	522,018	723,479
Labor force	207,952	263,450	344,269	494,223
Armed forces	22,856	47,255	49,785	58,443
Civilian labor force	185,096	216,195	294,484	435,780
Employed	167,571	207,456	285,556	415,181
Unemployed	17,525	8,739	8,928	20,599
Percent of civ. labor force	9.5	4.0	3.0	4.7
Not in labor force	143,423	139,487	177,749	229,256
MALE				
Persons 16 years and over	197,864	219,822	272,726	370,683
Labor force	157,088	186,507	222,221	290,420
Armed forces	22,572	46,626	48,860	54,032
Civilian labor force	134,516	139,881	173,361	236,388
Employed	120,972	135,481	168,940	225,331
Unemployed	13,544	4,400	4,421	11,057
Percent of civ. labor force	10.1	3.1	2.6	4.7
Not in labor force	40,776	33,315	50,505	80,263
FEMALE				
Persons 16 years and over	153,511	183,115	249,292	352,796
Labor force	50,864	76,943	122,048	203,803
Armed forces	284	629	925	4,411
Civilian labor force	50,580	76,314	121,123	199,392
Employed	46,599	71,975	116,616	189,850
Unemployed	3,981	4,339	4,507	9,542
Percent of civ. labor force	7.9	5.7	3.7	4.8
Not in labor force	102,647	106,172	127,244	148,993

1/ Data refer to persons 14 years and over.

Source: U.S. Bureau of the Census, U.S. Census of Population: 1960, General Social and Economic Chracteristics, Hawaii, PC(1)-13C (1962), tables 53 and 54, and Detailed Characteristics, Hawaii, PC(1)-13D (1962), table 115; 1970 Census of Population, General Social and Economic Characteristics, Hawaii, PC(1)-C13 (December 1971), table 53; 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 61.

Table 364.-- LABOR FORCE STATUS, BY COUNTIES: 1980

Subject	The State	Counties: Hawaii	Honolulu	Kala-wao	Kauai	Maui
Persons 16 years and over	723,479	67,205	574,903	144	28,629	52,598
Labor force	494,223	41,214	397,889	82	18,998	36,040
Percent of persons 16 years and over	68.3	61.3	69.2	56.9	66.4	68.5
Civilian labor force	435,780	41,006	339,863	82	18,789	36,040
Employed	415,181	38,150	324,113	82	18,223	34,613
Unemployed	20,599	2,856	15,750	-	566	1,427
Percent of civilian labor force	4.7	7.0	4.6	-	3.0	4.0
Not in labor force	229,256	25,991	177,014	62	9,631	16,558
Female, 16 years and over	352,796	33,160	279,711	56	13,871	25,998
Labor force	203,803	17,013	162,998	35	8,077	15,680
Percent of female, 16 years and over	57.8	51.3	58.3	62.5	58.2	60.3
Civilian labor force	199,392	17,007	158,618	35	8,052	15,680
Employed	189,850	15,875	151,089	35	7,756	15,095
Unemployed	9,542	1,132	7,529	-	296	585
Percent of civilian labor force	4.8	6.7	4.7	-	3.7	3.7
Not in labor force	148,993	16,147	116,713	21	5,794	10,318
Female, 16 years and over	352,796	33,160	279,711	56	13,871	25,998
With own children under 6 years	62,606	6,679	48,648	-	2,632	4,647
In labor force	32,215	3,244	24,828	-	1,467	2,676
With own children 6 to 17 years only	65,359	5,661	52,415	-	2,681	4,602
In labor force	45,523	3,864	36,248	-	1,992	3,419

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC 80-1-C13 (June 1983), tables 67 and 176.

Table 365.-- LABOR FORCE STATUS, BY AGE AND SEX: 1980

Sex and age	Total	Armed forces	Civilian labor force			Not in labor force
			Total	Em-ployed	Unem-ployed	
Persons 16 years and over	723,479	58,443	435,780	415,181	20,599	229,256
Male	370,683	54,032	236,388	225,331	11,057	80,263
16 to 19 years	37,481	5,598	14,441	12,658	1,783	17,442
20 to 24 years	59,293	21,970	30,569	28,079	2,490	6,754
25 to 54 years	192,705	26,207	153,456	147,844	5,612	13,042
55 to 64 years	43,030	248	30,282	29,346	936	12,500
65 years and over	38,174	9	7,640	7,404	236	30,525
Female	352,796	4,411	199,392	189,850	9,542	148,993
16 to 19 years	32,403	411	13,288	11,734	1,554	18,704
20 to 24 years	46,694	1,937	29,581	27,514	2,067	15,176
25 to 54 years	192,675	2,033	132,002	126,889	5,113	58,640
55 to 64 years	43,233	30	21,109	20,483	626	22,094
65 years and over	37,791	-	3,412	3,230	182	34,379

Age	Percent of total population in labor force		Percent of civilian population in civilian labor force		Percent of civilian labor force unemployed	
	Male	Female	Male	Female	Male	Female
Persons 16 years and over .	78.3	57.8	74.7	57.2	4.7	4.8
16 to 19 years	53.5	42.3	45.3	41.5	12.3	11.7
20 to 24 years	88.6	67.5	81.9	66.1	8.1	7.0
25 to 54 years	93.2	69.6	92.2	69.2	3.7	3.9
55 to 64 years	71.0	48.9	70.8	48.9	3.1	3.0
65 years and over	20.0	9.0	20.0	9.0	3.1	5.3

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 67.

Table 366.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE: ANNUAL AVERAGES, 1970 TO 1986

Year	Civilian labor force	Civilian employment	Unemployed	
			Number	Percent
1970	321,550	305,650	15,900	4.9
1971	336,800	313,450	23,350	6.9
1972	351,000	324,050	26,950	7.7
1973	364,600	338,350	26,250	7.2
1974	375,000	345,350	29,650	7.9
1975	382,950	351,100	31,850	8.3
1976	410,000	370,000	40,000	9.8
1977	418,000	388,000	31,000	7.3
1978	420,000	388,000	32,000	7.7
1979	422,000	395,000	26,000	6.3
1980	440,000	418,000	21,000	4.9
1981	451,000	427,000	24,000	5.4
1982	461,000	430,000	31,000	6.7
1983 1/ .	472,000	442,000	30,000	6.4
1984 1/ .	472,000	445,000	27,000	5.7
1985 1/ .	478,000	451,000	27,000	5.6
1986	489,000	465,000	24,000	4.9

1/ Revised from Data Book 1986, table 353.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1987.

Table 367.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE, FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1976 TO 1986

[Data for 1980 and later years are not directly comparable to estimates for earlier years. Island data may not add exactly to State totals in preceding table]

Year	Oahu	Hawaii County	Kauai County	Maui County			
				County total	Lanai	Maui	Molokai
CIVILIAN LABOR FORCE							
1976	324,800	37,050	17,750	30,400	1,700	25,600	3,100
1977	330,550	37,800	18,500	32,100	1,700	27,150	3,200
1978	330,650	37,600	18,450	33,300	1,800	27,850	3,600
1979	331,100	37,250	18,500	34,150	1,750	28,650	3,700
1980	338,350	43,550	19,550	37,550	1,300	33,900	2,350
1981	345,700	45,450	20,100	39,800	1,300	36,000	2,500
1982	350,100	47,200	20,850	42,900	1,350	38,950	2,600
1983	357,150	48,350	21,650	44,850	1,150	40,950	2,750
1984	357,100	48,650	21,300	44,950	1,150	41,250	2,550
1985 1/ ...	358,850	50,300	22,000	46,850	1,050	43,450	2,300
1986	366,750	50,850	23,100	48,300	1,100	44,800	2,450
CIVILIAN EMPLOYMENT							
1976	293,750	32,900	16,100	27,250	1,450	23,100	2,650
1977	306,500	34,350	17,350	29,800	1,600	25,300	2,900
1978	305,950	33,950	17,200	30,900	1,650	26,000	3,250
1979	311,050	34,350	17,500	32,100	1,650	27,100	3,300
1980	322,800	40,850	18,700	35,650	1,200	32,450	2,050
1981	328,500	42,150	18,900	37,450	1,150	34,150	2,150
1982	328,600	42,700	19,150	39,550	1,100	36,250	2,200
1983	336,550	44,050	20,000	41,450	1,050	38,150	2,200
1984	338,050	44,900	19,800	42,250	1,000	39,000	2,200
1985 1/ ...	343,400	46,050	20,500	44,050	850	41,200	2,000
1986	350,550	47,000	21,700	45,750	950	42,700	2,100

Continued on next page.

Table 367.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE, FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1976 TO 1986 -- Con.

Year	Oahu	Hawaii County	Kauai County	Maui County			
				County total	Lanai	Maui	Molokai
UNEMPLOYED							
1976	31,000	4,150	1,650	3,150	200	2,500	450
1977	24,050	3,450	1,200	2,350	150	1,900	300
1978	24,700	3,650	1,200	2,400	200	1,850	400
1979	20,050	2,900	1,000	2,050	100	1,550	400
1980	15,550	2,700	850	1,900	100	1,500	350
1981	17,150	3,350	1,150	2,350	150	1,900	300
1982	21,500	4,500	1,700	3,300	250	2,700	400
1983	20,600	4,300	1,650	3,400	100	2,800	550
1984	19,100	3,750	1,500	2,700	150	2,200	350
1985 1/ ..	18,450	4,250	1,500	2,800	200	2,250	300
1986	16,200	3,850	1,400	2,550	100	2,100	350
PERCENT UNEMPLOYED							
1976	9.6	11.2	9.3	10.4	13.0	9.8	14.4
1977	7.3	9.1	6.4	7.3	8.0	6.9	10.0
1978	7.5	9.8	6.5	7.3	10.4	6.6	10.5
1979	6.1	7.8	5.3	6.0	5.4	5.5	10.7
1980	4.6	6.2	4.3	5.1	8.1	4.4	14.2
1981	5.0	7.3	5.8	5.9	10.6	5.2	12.9
1982	6.1	9.5	8.2	7.7	18.0	6.9	15.2
1983	5.8	8.9	7.7	7.6	9.0	6.8	19.4
1984	5.3	7.7	7.0	6.0	11.3	5.4	13.8
1985 1/ ..	5.1	8.5	6.8	5.9	20.2	5.2	12.9
1986	4.4	7.6	6.0	5.3	11.4	4.7	13.5

1/ Revised from Data Book 1986, table 354.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), tables 2-8, as revised annually through April 1987.

Table 368.-- CHARACTERISTICS OF THE INSURED UNEMPLOYED: 1986

[Includes all eligible claimants who filed new claims for unemployment insurance benefits during the calendar year. Includes both intrastate and interstate claimants, with Hawaii as the liable state]

Subject	Number	Subject	Number
Total	36,951	Industry:	
		Agriculture	1,997
Age:		Construction, mining	5,817
Under 20 years	722	Manufacturing	3,704
20 to 29 years	12,466	Transportation	3,145
30 to 39 years	11,214	Communication, utilities	332
40 to 49 years	6,305	Wholesale trade	1,333
50 to 59 years	4,132	Eating, drinking places	2,825
60 years and over	1,869	Other retail trade	3,230
Unknown	243	Finance and related	1,602
		Hotel and related	2,464
Sex:		Other services	5,906
Male	21,203	Government	3,909
Female	15,748	Unknown	687
Education:		Occupation:	
8 years or less	2,881	Prof., tech., mgr.	4,388
9 to 12 years	19,990	Clerical	5,175
13 to 16 years	9,059	Sales	1,447
17 years or more	1,336	Service	4,294
Unknown	3,685	Farming	989
		Processing	306
Race:		Machine trades	675
Black	815	Benchwork	310
Chinese	1,390	Struct. work	2,153
Filipino	7,508	Miscellaneous	2,326
Hawaiian	3,718	Unknown	14,888
Japanese	4,866		
Spanish	224	Weeks compensated:	
White	10,700	0	9,878
Other	7,267	1 to 5	10,853
Unknown	463	6 to 10	5,200
		11 to 25	7,762
		26 or more	3,258

Continued on next page.

Table 368.-- CHARACTERISTICS OF THE INSURED UNEMPLOYED: 1986 - Con.

Subject	Number	Subject	Number
Amount of benefits:		Annual wages:	
Less than $500	18,032	Less than $5,000	6,263
$500 to $999	4,755	$5,000 to $9,999	10,305
$1,000 to $1,999	5,818	$10,000 to $14,999	8,310
$2,000 to $2,999	3,579	$15,000 to $19,999	5,564
$3,000 or more	4,767	$20,000 and more	6,489
		Unknown	20

Source: Hawaii State Department of Labor and Industrial Relations, records.

Table 369.--LABOR FORCE STATUS OF THE CIVILIAN NONINSTITUTIONAL POPULATION 16 YEARS AND OVER: ANNUAL AVERAGES, 1986

[Numbers in thousands]

Labor force status	Persons 16 years and over			16 to 19 years (both sexes)
	Both sexes	Men	Women	
Civilian noninstitutional population .	739	352	387	60
Civilian labor force	488	260	228	29
Percent of population	66.1	73.8	59.0	47.9
Employment	465	247	217	24
Percent of population	62.9	70.2	56.1	39.5
Unemployment	24	13	11	5
Rate 1/	4.8	4.9	4.8	17.5
Not in civilian labor force	251	92	159	31

1/ Percent of civilian labor force. The error ranges for these rates, at the 90-percent confidence interval, are: both sexes, 4.2-5.5; men, 4.0-5.7; women, 3.9-5.7; 16-19, 13.3-21.7.

Source: U.S. Bureau of Labor Statistics, Geographic Profile of Employment and Unemployment, 1986 (Bull. 2279, May 1987), p. 38.

Table 370.-- JOBCOUNT, BY COUNTIES: ANNUAL AVERAGES, 1970 TO 1986

[Persons holding more than one job are counted in each position. As a result, these data differ from corresponding estimates of employment, reported elsewhere in this section. Active-duty armed forces are excluded, unless also employed in civilian jobs]

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
1970	331,580	270,310	28,410	12,540	20,320
1971	339,070	276,260	29,000	12,960	20,840
1972	349,950	285,900	29,450	13,050	21,550
1973	365,050	298,900	30,150	13,600	22,250
1974	374,650	306,350	31,000	13,600	23,650
1975	380,900	308,550	32,350	14,550	25,400
1976	387,000	312,100	33,000	15,250	26,600
1977	398,600	319,900	34,100	15,900	28,450
1978	417,500	334,400	35,400	16,650	30,950
1979	434,450	348,150	36,300	17,200	32,650
1980	448,150	357,900	38,200	18,400	33,850
1981	449,900	357,350	39,050	18,300	35,150
1982	446,050	352,150	39,050	18,300	36,600
1983	453,750	357,100	39,850	18,900	37,850
1984	461,000	362,200	41,000	18,950	38,950
1985 1/ .	473,150	369,800	42,400	19,900	41,100
1986	485,350	378,950	43,100	20,900	42,400

1/ Revised from Data Book 1986, table 357.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1987; Labor Force Statistics, Bull. No. 70-F and 72-F.

Table 371.-- JOBCOUNT, BY INDUSTRY: ANNUAL AVERAGES, 1977 TO 1986

Industry	1977	1978	1979	1980	1981
Nonagriculture, wage and salary	359,400	377,300	394,000	404,100	404,800
Contract construction	19,750	20,650	23,400	23,950	21,900
Manufacturing	23,200	23,700	23,900	23,350	23,000
Durable goods	4,600	4,700	4,800	4,700	4,250
Nondurable goods	18,600	19,000	19,100	18,650	18,750
Food processing	11,250	11,700	11,600	11,150	11,150
Pineapple	3,050	3,200	3,200	2,900	2,800
Sugar	3,950	4,150	3,950	3,900	3,950
Other	4,250	4,300	4,400	4,350	4,350
Textile, apparel	3,250	3,250	3,300	3,050	2,950
Printing, publishing	2,750	2,850	2,950	3,100	3,150
Other nondurables	1,350	1,200	1,250	1,350	1,500
Transp., commun., utilities ..	28,200	28,800	30,500	31,200	31,900
Transportation	19,200	19,950	21,200	21,500	21,900
Communication	6,500	6,350	6,750	7,150	7,400
Utilities	2,500	2,500	2,500	2,550	2,600
Trade	92,200	97,900	102,900	105,250	105,450
Wholesale	16,600	17,200	18,300	18,600	18,700
Retail	75,550	80,700	84,650	86,700	86,750
Finance, insur., real estate .	25,650	28,850	31,500	32,850	31,700
Services and miscellaneous ...	84,750	90,300	95,350	98,450	101,900
Hotels	22,100	22,850	24,100	24,900	24,800
Other services, misc.	62,650	67,450	71,250	73,550	77,100
Government	85,700	87,050	86,500	89,050	89,000
Federal	29,300	29,350	29,700	30,000	30,350
Air Force	3,050	2,850	2,750	2,650	2,600
Army	4,750	4,500	4,250	4,100	4,300
Navy	11,200	11,750	11,850	11,950	12,500
Other	10,250	10,250	10,800	11,250	10,900
State	42,650	43,350	43,300	45,150	45,250
Local	13,800	14,350	13,500	13,900	13,350
Agriculture, wage and salary ...	11,300	11,550	10,850	10,650	11,550
Sugar	5,000	4,900	5,000	4,950	5,200
Pineapple	2,400	2,550	2,550	2,500	2,450
Other	3,900	4,100	3,300	3,200	3,950
Nonagric., self-employed 2/	23,000	23,800	24,350	28,300	29,150
Agric., self-employed 3/	4,400	4,700	4,550	4,600	4,350
Labor disputes	500	150	700	500	50

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Table 371.-- JOBCOUNT, BY INDUSTRY: ANNUAL AVERAGES, 1977 TO 1986 -- Con.

Industry	1982	1983	1984	1985 1/	1986
Nonagriculture, wage and salary	399,400	406,200	412,650	425,750	437,200
Contract construction	17,850	17,800	15,800	17,150	18,950
Manufacturing	22,400	22,350	21,900	21,900	22,050
Durable goods	3,900	3,600	3,350	3,700	3,850
Nondurable goods	18,550	18,750	18,550	18,250	18,250
Food processing	11,150	11,250	10,750	10,050	10,150
Pineapple	2,750	2,550	2,150	1,900	2,000
Sugar	3,850	3,750	3,700	3,450	3,300
Other	4,550	4,900	4,900	4,700	4,850
Textile, apparel	2,850	2,900	2,950	3,300	3,300
Printing, publishing	3,150	3,150	3,350	3,450	3,400
Other nondurables	1,400	1,450	1,450	1,400	1,350
Transp., commun., utilities ..	31,200	31,100	31,950	33,200	33,950
Transportation	21,150	21,100	22,100	23,400	24,300
Communication	7,500	7,550	7,500	7,350	7,100
Utilities	2,550	2,450	2,400	2,450	2,550
Trade	104,850	106,850	111,400	115,650	116,700
Wholesale	18,500	18,400	18,900	19,550	19,300
Retail	86,300	88,450	92,450	96,100	97,350
Finance, insur., real estate .	31,500	31,900	31,850	31,950	32,900
Services and miscellaneous ...	101,200	104,950	107,950	112,650	118,750
Hotels	26,500	27,000	28,250	29,000	29,250
Other services, misc.	74,700	77,900	79,700	83,650	89,500
Government	90,300	91,300	91,850	93,300	93,850
Federal	31,500	32,100	32,100	32,400	32,100
Air Force	2,650	2,650	2,650	2,650	2,650
Army	4,650	4,850	5,000	5,400	5,600
Navy	13,100	13,350	12,950	12,700	12,150
Other	11,100	11,250	11,550	11,600	11,750
State	45,650	45,900	46,550	47,400	48,600
Local	13,150	13,300	13,200	13,500	13,150
Agriculture, wage and salary ...	11,300	11,200	10,800	10,400	10,150
Sugar	4,700	4,500	4,300	4,100	4,000
Pineapple	2,450	2,300	2,100	1,950	2,050
Other	4,150	4,400	4,400	4,350	4,100
Nonagric., self-employed 2/	31,300	32,300	33,450	33,400	34,600
Agric., self-employed 3/	3,950	3,900	3,650	3,500	3,200
Labor disputes	100	150	450	100	200

Footnotes and source follow next table.

Table 372.-- JOBCOUNT BY INDUSTRY, BY COUNTIES: ANNUAL AVERAGE, 1986

Industry	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Nonagriculture, wage and salary	437,200	350,650	32,950	17,650	35,950
Contract construction	18,950	15,550	1,250	650	1,500
Manufacturing	22,050	16,250	2,650	1,200	1,950
Durable goods	3,850	3,450	100	(Z)	200
Nondurable goods	18,250	12,750	2,550	1,150	1,750
Food processing	10,150	5,450	2,150	1,050	1,500
Textile, apparel	3,300	3,150	(NS)	(NS)	(NS)
Printing, publishing	3,400	3,000	(NS)	(NS)	(NS)
Other nondurables	1,350	1,200	(NS)	(NS)	(NS)
Transp., commun., utilities ..	33,950	27,750	2,000	1,950	2,250
Transportation	24,300	20,400	(NS)	(NS)	(NS)
Communication	7,100	5,500	(NS)	(NS)	(NS)
Utilities	2,550	1,800	(NS)	(NS)	(NS)
Trade	116,700	91,750	9,250	5,050	10,650
Wholesale	19,300	16,500	1,500	400	950
Retail	97,350	75,250	7,750	4,650	9,700
Finance, insur., real estate .	32,900	27,850	1,550	1,000	2,500
Services and miscellaneous ...	118,750	92,350	9,100	5,000	12,300
Hotels	29,250	16,350	3,950	2,500	6,450
Other services, misc.	89,500	76,000	5,150	2,550	5,850
Government	93,850	79,200	7,100	2,800	4,750
Federal	32,100	30,900	650	250	300
Air Force	2,650	2,550	(NS)	(NS)	(NS)
Army	5,600	5,500	(NS)	(NS)	(NS)
Navy	12,150	12,100	(NS)	(NS)	(NS)
Other	11,750	10,800	(NS)	(NS)	(NS)
State	48,600	39,100	4,650	1,750	3,150
Local	13,150	9,200	1,800	850	1,300
Agriculture, wage and salary ...	10,150	2,600	3,400	1,250	2,900
Sugar	4,000	550	1,250	1,050	1,100
Pineapple	2,050	850	-	-	1,200
Other	4,100	1,200	2,100	200	600
Nonagric., self-employed 2/	34,600	24,900	4,650	1,800	3,250
Agric., self-employed 3/	3,200	600	2,100	200	300
Labor disputes	200	200	-	-	(Z)

Z Fewer than 50.

NS Not shown separately.

1/ Revised from Data Book 1986, tables 358-359.

2/ Includes unpaid family workers and domestics.

3/ Includes unpaid family workers.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1987.

Table 373.-- LABOR FORCE AND JOB ESTIMATES AND PROJECTIONS: 1985 TO 2005

[Thousands. Annual averages. Series M-F projections, recommended by DBED for State planning purposes]

Subject	Estimates		Projections			
	1985	1986	1990	1995	2000	2005
Civilian labor force 1/ (1,000)	478.0	489.0	533.4	575.6	607.9	627.7
Persons employed 1/	451.0	465.0	503.9	544.2	574.7	593.7
Total jobs (1,000)	531.1	543.8	572.3	613.4	644.5	663.9
Armed forces	58.0	58.6	58.4	58.4	58.4	58.4
Civilian jobs 1/	473.1	485.2	513.8	554.9	586.1	605.4
Self-employed	36.9	37.8	34.9	37.7	39.8	41.1
Wage and salary jobs by sector .	436.2	447.4	478.9	517.3	546.3	564.3
Agriculture	10.4	10.2	11.1	10.6	10.2	9.8
Food processing	10.0	10.2	11.0	10.8	10.5	10.3
Miscellaneous manufacturing ..	11.8	11.9	12.1	12.6	12.9	13.1
Construction	17.2	19.0	23.4	25.8	27.7	28.9
Transportation, communication, and utilities	33.2	34.0	35.5	38.3	40.2	40.6
Trade (exc. eating & drinking)	75.5	75.2	85.6	94.9	102.1	108.2
Eating and drinking places ...	40.2	41.5	43.6	47.8	50.6	51.9
Finance, insurance, and real estate	31.9	32.9	36.8	39.7	41.9	43.5
Hotels	29.0	29.2	31.8	35.0	36.9	37.1
Other services	83.6	89.5	88.4	96.8	103.5	108.0
State and local government ...	60.9	61.8	66.6	71.1	74.6	77.4
Federal government 1/	32.4	32.1	33.1	33.9	34.7	35.4

1/ Includes civilian employees of the armed forces.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1987, and Employment Series 202 quarterly reports; Hawaii State Department of Planning and Economic Development, Population and Economic Projections for the State of Hawaii, 1980-2005 (July 1984), p. 14, and Military Personnel and Dependents in Hawaii, 1986 (Statistical Report 192, September 29, 1986).

Table 374.-- EMPLOYMENT BY INDUSTRY: 1980 AND 1970

Industry	1980	1970
Employed persons 16 years and over	415,181	285,556
Agriculture, forestry, and fisheries	14,560	13,161
Mining	233	322
Construction	29,888	26,637
Manufacturing	32,914	31,188
Nondurable goods	21,234	21,173
Durable goods	11,680	10,015
Transportation, communications, and other public utilities	36,478	26,403
Wholesale and retail trade	98,542	61,044
Finance, insurance, and real estate	31,648	14,356
Business and repair services	17,832	8,978
Personal services	31,288	20,301
Entertainment and recreation services	6,862	3,756
Professional and related services	73,363	48,310
Public administration	41,573	31,100

Source: U.S. Bureau of the Census, *1980 Census of Population, General Social and Economic Characteristics, Hawaii*, PC80-1-C13 (June 1983), table 61.

Table 375.-- EMPLOYMENT BY CLASS OF WORKER: 1940 TO 1980

[Persons 14 years and over through 1960; 16 years and over, 1970 and 1980]

Class of worker	1940	1950	1960	1970	1980
All employed civilians	153,796	167,571	209,370	285,556	415,181
Private wage and salary workers	113,551	111,036	144,602	200,912	300,315
Government workers	18,553	34,400	46,078	70,547	90,401
Self-employed workers	15,967	19,192	17,009	12,832	22,965
Unpaid family workers	5,725	2,943	1,681	1,265	1,500

Source: U.S. Bureau of the Census, *U.S. Census of Population: 1960, General Social and Economic Characteristics, Hawaii*, Final Report PC(1)-13C (February 1962), table 56; *1970 Census of Population, General Social and Economic Characteristics, Hawaii*, PC(1)-C13 (December 1971), table 56; *1980 Census of Population, General Social and Economic Characteristics, Hawaii*, PC80-1-C13 (June 1983), table 67.

Table 376.-- OCCUPATION, BY SEX: 1980 AND 1970

Occupation	Both sexes		Females only	
	1980	1970	1980	1970
Employed persons 16 years and over ...	415,181	285,556	189,850	116,616
Managerial and professional specialty occupations	97,606	58,242	42,212	22,565
Executive, administrative, and managerial occupations	48,671	25,048	16,900	6,129
Professional specialty occupations	48,935	33,194	25,312	16,436
Technical, sales, and administrative support occupations	132,651	83,698	89,078	53,113
Technicians and related support occupation	11,982	7,442	4,501	2,027
Sales occupations	47,475	28,227	27,465	15,571
Administrative support occupations, including clerical	73,194	48,029	57,112	35,515
Service occupations	74,149	44,024	41,691	26,766
Private household occupations	1,547	2,131	1,376	2,024
Protective service occupations	7,578	4,304	855	143
Service occupations, except protective and household	65,024	37,589	39,460	24,599
Farming, forestry, and fishing occupations	14,154	12,572	2,785	2,118
Precision production, craft, and repair occupations	48,198	43,484	3,941	2,731
Operators, fabricators, and laborers	48,423	43,536	10,143	9,323
Machine operators, assemblers, and inspectors	14,000	13,589	5,730	5,743
Transportation and material moving occupations	16,430	13,767	1,132	472
Handlers, equipment cleaners, helpers, and laborers	17,993	16,180	3,281	3,108

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 61.

Table 377.-- CLASS OF WORKER AND INDUSTRY, BY COUNTIES: 1980

Subject	The State	Counties				
		Hawaii	Honolulu	Kala-wao	Kauai	Maui
CLASS OF WORKER						
Employed persons 16 years and over	415,181	38,150	324,113	82	18,223	34,613
Private wage and salary workers	300,315	27,226	231,719	24	13,885	27,461
Federal Government workers	32,244	909	30,207	3	508	617
State Government workers	43,814	4,945	34,268	48	1,715	2,838
Local Government workers	14,343	1,481	10,583	-	1,002	1,277
Self-employed workers	22,965	3,310	16,312	7	1,035	2,301
Unpaid family workers	1,500	279	1,024	-	78	119
INDUSTRY						
Employed persons 16 years and over	415,181	38,150	324,113	82	18,223	34,613
Agriculture, forestry, fisheries, and mining	14,793	4,272	5,662	1	1,762	3,096
Construction	29,888	3,477	21,423	-	1,621	3,367
Manufacturing	32,914	3,177	24,982	8	1,548	3,199
Nondurable goods	21,234	2,539	14,713	3	1,354	2,625
Durable goods	11,680	638	10,269	5	194	574
Transportation	25,392	1,524	21,174	2	1,015	1,677
Communications and other public utilities	11,086	812	8,771	-	668	835
Wholesale trade	16,089	1,477	13,286	7	462	857
Retail trade	82,453	6,683	66,358	4	3,089	6,319
Finance, insurance, and real estate	31,648	2,174	26,145	-	1,074	2,255
Business and repair services	17,832	1,251	14,726	-	527	1,328
Personal, entertainment, and recreation services	38,150	4,154	26,252	7	2,317	5,420
Professional and related services	73,363	6,378	59,927	6	2,713	4,339
Health services	22,390	1,700	18,429	4	873	1,384
Educational services	31,989	3,090	26,113	-	1,099	1,687
Other professional and related services	18,984	1,588	15,385	2	741	1,268
Public administration	41,573	2,771	35,407	47	1,427	1,921

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), tables 67, 69, 176, and 178.

Table 378.-- OCCUPATION, BY COUNTIES: 1980

Occupation	The State	Counties				
		Hawaii	Honolulu	Kala-wao	Kauai	Maui
Employed persons 16 years and over	415,181	38,150	324,113	82	18,223	34,613
Managerial and professional specialty occupations	97,606	7,648	79,934	15	3,499	6,510
Executive, administrative, and managerial occupations	48,671	3,518	39,971	7	1,545	3,630
Professional specialty occupations	48,935	4,130	39,963	8	1,954	2,880
Technical, sales, and administrative support occupations	132,651	9,956	109,521	15	4,554	8,605
Technicians and related support occupations	11,982	864	9,915	-	614	589
Sales occupations	47,475	3,996	38,367	1	1,683	3,428
Administrative support occupations, including clerical	73,194	5,096	61,239	14	2,257	4,588
Service occupations	74,149	6,283	56,939	17	3,742	7,168
Private household occupations	1,547	134	1,116	-	135	162
Protective service occupations	7,578	609	6,010	2	388	569
Service occupations, except protective and household	65,024	5,540	49,813	15	3,219	6,437
Farming, forestry, and fishing occupations	14,154	3,927	5,838	8	1,509	2,872
Precision production, craft, and repair occupations	48,198	4,848	36,546	20	2,345	4,439
Operators, fabricators, and laborers	48,423	5,488	35,335	7	2,574	5,019
Machine operators, assemblers, and inspectors	14,000	1,308	10,887	5	518	1,282
Transportation and material moving occupations	16,430	2,123	11,274	-	1,054	1,979
Handlers, equipment cleaners, helpers, and laborers	17,993	2,057	13,174	2	1,002	1,758

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), tables 68 and 177.

Table 379.-- OCCUPATION OF EMPLOYED CIVILIANS, BY SEX: ANNUAL AVERAGES, 1986

Occupation	Both sexes	Men	Women
All occupations (number in thousands)	465	247	217
Percent	100.0	100.0	100.0
Managerial and professional specialty:			
Executive, administrative, and managerial	12.1	13.5	10.5
Professional specialty	12.9	11.3	14.6
Technical, sales, and administrative support:			
Technicians and related support	3.2	3.4	3.0
Sales	12.7	11.3	14.4
Administrative support, including clerical	17.1	6.7	28.9
Service occupations	17.9	15.2	21.1
Precision production, craft, and repair	9.8	17.1	1.5
Operators, fabricators, and laborers:			
Machine operators, assemblers, and inspectors ..	2.8	3.3	2.3
Transportation and material moving	3.5	6.1	.6
Handlers, equipment cleaners, helpers, and laborers	4.0	6.2	1.5
Farming, forestry, and fishing	3.9	5.7	1.8

Source: U.S. Bureau of Labor Statistics, Geographic Profile of Employment and Unemployment, 1986 (Bull. 2279, May 1987), pp. 58-59.

Table 380.-- PLACE OF RESIDENCE AND PLACE OF WORK OF EMPLOYED PERSON 16 YEARS AND OVER FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS: 1980

[Residence and labor force status as of April 1; place of work as of preceding week. Includes armed forces. For census tract maps, see pp. 24-25]

Census tract	Workers by place of --	
	Residence	Work 1/
County total	369,523	356,692
Honolulu CDP	183,677	246,969
1.02	962	250
1.03	5,482	532
1.04	3,515	110
1.05	2,860	1,117
2	2,579	455
3	2,841	561
4.01	1,391	174
4.02	2,077	201
5	2,320	3,594
6	945	750
7	1,829	439
8	2,175	911
9.01	1,423	418
9.02	2,087	218
9.03	1,469	557
10	1,792	128
11	1,552	256
12.01	1,575	1,152
12.02	1,828	59
13	2,300	1,735
14	1,428	146
15	1,986	422
16	2,298	577
17	1,263	1,644
18.01	571	4,570
18.02	1,725	1,009
19.01	571	11,832
19.02	3,014	2,596
20.01	1,318	8,457
20.02	1,895	1,547
21	2,057	2,220
22	4,004	586
23	3,123	638
24.01	1,517	64
24.02	1,737	730
25	2,145	1,416
Honolulu, con.:		
26	2,663	3,635
27.01	2,707	6,633
27.02	3,110	1,507
28	2,127	95
29	904	667
30	2,468	294
31.01	2,205	145
31.02	1,905	225
32	655	100
33	541	235
34.03	3,170	189
34.04	2,819	413
34.05	1,964	235
34.06	3,255	261
34.07	453	192
35	2,583	7,698
36.01	2,334	7,227
36.02	1,578	2,858
37	1,326	18,578
38	263	13,499
38.99	-	279
39	54	12,918
39.99	90	-
40	548	28,465
41	2,559	8,411
42	1,709	1,391
43	2,616	883
44	2,492	153
45	2,800	583
46	2,032	777
47	2,525	1,271
48	2,705	1,134
49	1,459	595
50	1,855	2,402
51	578	845
52	358	2,777
53	1,877	890
54	389	55

Continued on next page.

Table 380.-- PLACE OF RESIDENCE AND PLACE OF WORK OF EMPLOYED PERSON 16 YEARS AND OVER FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS: 1980 -- Con.

Census tract	Workers by place of --	
	Residence	Work 1/
Honolulu, con.:		
55	821	509
56	2,527	1,399
57	748	9,295
57.99	540	12
58	1,349	2,354
59	1,414	6,348
59.99	...	28
60	2,391	3,534
61	1,408	203
62.01	1,990	336
62.02	494	221
63.01	1,502	290
63.02	711	141
64.01	910	-
64.02	2,282	177
65	1,665	78
66	1,177	3,032
67.01	3,933	4,104
67.02	1,075	135
68.01	10,152	302
68.02	2,154	72
68.03	-	6,990
69	1,280	100
70	1,771	163
71	939	11,805
72	1,071	14,656
114	...	-
Rest of Oahu	185,846	109,723
73	2,632	1,707
73.99	-	-
74	2,098	9,538
74.99	7,614	30
75.01	3,164	110
75.02	323	66
75.03	2,695	191
76	493	193
77.01	2,142	1,018
77.02	2,470	159
78.01	6,730	(NA)
78.02	6,567	5,217
Rest of Oahu, con.:		
80.01	648	424
80.02	1,507	1,000
80.03	1,321	251
80.05	3,433	146
80.06	3,002	226
80.07	3,168	251
81	1,179	2,603
81.99	-	-
82	-	-
83	4,400	619
84	3,020	1,686
85	1,608	3,865
86.01	4,008	260
86.02	1,749	3,185
86.99	...	-
87.01	3,120	383
87.02	1,573	1,324
87.03	1,207	1,880
88	2,103	932
89.01	3,314	1,361
89.02	12,709	2,472
89.03	3,226	947
90	1,174	9
91	1,476	223
92	3,412	1,682
93	1,702	11,323
94	2,320	(NA)
95.01	1,044	229
95.02	1,828	349
95.03	6,120	7,125
95.04	330	(NA)
95.05	1,069	(NA)
96.01	1,550	1,222
96.03	1,578	
96.04	1,179	
97	3,415	3,105
98	1,889	
99.01	2,396	864
99.02	942	1,167
100	1,067	
101	1,912	(NA)

Continued on next page.

Table 380.-- PLACE OF RESIDENCE AND PLACE OF WORK OF EMPLOYED PERSON 16 YEARS AND OVER FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS: 1980 -- Con.

Census tract	Workers by place of --		Census tract	Workers by place of --	
	Residence	Work 1/		Residence	Work 1/
Rest of Oahu, con.:			Rest of Oahu, con.:		
102.01	1,526	(NA)	108.99	34	-
102.02	2,273	2,214	109.01	1,571	424
103.02	1,637	43	109.03	1,763	660
103.03	1,402	(NA)	109.04	1,636	390
103.04	4,678	(NA)	109.05	1,111	1,321
105.01	4,122	1,151	110	1,952	513
105.03	874	451	111.01	3,874	2,112
105.04	1,997	417	111.03	1,774	108
106.01	1,330	204	111.04	2,550	479
106.02	2,405	726	112.01	2,262	597
107.01	1,761	302	112.02	802	388
107.02	1,758	216	113	3,545	1,121
108	7,571	7,714	Unknown 2/	-	19,769

NA Not available.

1/ Tract data exclude residents who worked away from the City and County of Honolulu and nonresidents who worked within the area. Totals and subtotals (but not tract data) include imputed values for persons not reporting exact tract locations.

2/ Included in subtotals (see preceding footnote).

Source: U.S. Bureau of the Census, 1980 Census of Population and Housing, Census Tracts, Honolulu SMSA, PHC80-2-183 (1983), table P-9, and Urban Transportation Planning Package, printouts (March 1985).

Table 381.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES: 1976 TO 1986

Year	Number of employers, December 1/	Average employment	Wages and salaries	
			Total ($1,000)	Per worker (dollars)
INCLUDING GOVERNMENT				
1976	17,130	356,217	3,685,818	10,347
1977	17,831	366,555	3,996,746	10,903
1978	18,847	383,451	4,459,594	11,630
1979	19,639	400,963	4,983,844	12,429
1980	19,988	412,281	5,585,489	13,548
1981	20,190	414,830	6,002,943	14,471
1982	20,259	408,791	6,281,953	15,367
1983	20,937	413,767	6,668,001	16,115
1984	21,288	421,821	7,050,512	16,714
1985	21,945	434,400	7,530,505	17,335
1986	24,510	446,756	8,072,318	18,069
EXCLUDING GOVERNMENT				
1981	20,184	325,897	4,423,850	13,574
1982	20,253	320,885	4,563,866	14,223
1983	20,931	325,650	4,848,497	14,889
1984	21,282	332,227	5,150,338	15,502
1985	21,939	343,400	5,518,268	16,070
1986	24,498	355,192	5,997,767	16,886
PRIVATE NON-AGRICULTURAL				
1981	19,799	314,016	4,261,467	13,571
1982	19,876	309,531	4,412,058	14,254
1983	20,515	314,142	4,679,895	14,897
1984	20,856	320,902	4,973,005	15,497
1985	21,510	332,092	5,344,772	16,094
1986	23,992	343,555	5,817,270	16,933

1/ Beginning in 1986, includes employers reporting 1 or more employees at any time during the year, even if they reported no employees for December.

Source: Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual) and records.

Table 382.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY COUNTIES: 1986

County or island	Number of employers, Dec.	Average employment	Total wages ($1,000)	Average annual wage (dollars)
INCLUDING GOVERNMENT				
State total	24,510	446,756	8,072,318	18,069
City and Co. of Honolulu .	18,387	351,481	6,553,767	18,646
Hawaii County	2,574	36,081	566,272	15,694
Kauai County	1,157	19,909	322,720	16,210
Maui County	2,392	39,285	629,559	16,025
EXCLUDING GOVERNMENT				
State total	24,498	355,192	5,997,767	16,886
City and Co. of Honolulu .	18,384	274,753	4,794,295	17,449
Hawaii County	2,571	28,910	415,289	14,365
Kauai County	1,154	17,063	261,187	15,307
Maui County	2,389	34,465	526,997	15,291

Source: Hawaii State Department of Labor and Industrial Relations, 1986 Employment and Payrolls in Hawaii (September 1987).

Table 383.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY INDUSTRY: 1986

Industry	Number of employers, Dec.	Average employment	Total wages ($1,000)	Average annual wage (dollars)
All industries	24,510	446,756	8,072,318	18,069
Government	6	91,564	2,074,551	22,657
Federal	1	33,790	893,991	26,457
State	1	44,587	893,149	20,032
County	4	13,187	287,411	21,795
Private	24,498	355,192	5,997,767	16,886
Agriculture, forestry, fisheries	506	11,637	180,497	15,511
Sugar	14	4,052	72,460	17,882
Pineapple	5	2,163	37,225	17,210
Other	487	5,422	70,812	13,060
Mining and contract construction	2,083	18,792	533,647	28,398
Manufacturing	978	21,894	414,195	18,918
Sugar mills	12	2,898	60,070	20,728
Pineapple canning	2	2,129	34,412	16,164
Other food processing	216	4,852	83,218	17,151
Other manufacturing	748	12,015	236,495	19,683
Transportation	1,050	24,540	499,577	20,358
Communications	102	7,094	210,836	29,720
Utilities	46	2,595	94,202	36,301
Wholesale trade	2,121	19,572	405,949	20,741
Retail trade	5,357	98,346	1,067,620	10,856
Eating and drinking places	1,800	41,587	323,550	7,780
Other retail trade	3,557	56,759	744,069	13,109
Finance, insurance, real estate	3,224	33,672	662,358	19,671
Services	8,849	116,732	1,923,843	16,481
Hotels, rooming houses, etc.	192	29,300	424,684	14,494
Medical and other health services	1,910	22,510	514,727	22,867
Other services	6,747	64,922	984,432	15,163
Nonclassifiable establishments	182	318	5,043	15,859

Source: Hawaii State Department of Labor and Industrial Relations, 1986 Employment and Payrolls in Hawaii (September 1987), pp. 2-3.

Table 384.-- AVERAGE ANNUAL WAGE FOR EMPLOYEES COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, IN CURRENT AND CONSTANT DOLLARS, BY CLASS OF WORKER: 1976 AND 1986

Class of worker	1976: current dollars	1986		Percent change, 1976-1986	
		Current dollars	1976 dollars 1/	Current dollars	1976 dollars 1/
All classes ..	10,347	18,069	9,767	74.6	-5.6
Federal	15,405	26,457	14,301	71.7	-7.2
State 2/	11,351	20,032	10,828	76.5	-4.6
County	11,380	21,795	11,781	91.5	+3.5
Private	9,586	16,886	9,128	76.2	-4.8

1/ Deflated by the all-items consumer price index (CPI-U) for Honolulu. The all-items index increased 85.0 percent during this period.

2/ Average for 1976 is understated because of erroneous inclusion of uncovered student workers, omitted in 1986 data.

Source: Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual).

Table 385.-- NONGOVERNMENTAL REPORTING UNITS AND EMPLOYMENT, BY SIZE OF FIRM: DECEMBER 1986

Subject	All units	Employment-size class					
		1 to 4	5 to 9	10 to 19	20 to 49	50 to 99	100 or more
Reporting units ..	24,498	14,004	4,487	2,884	1,857	683	583
Employment	367,009	23,090	29,556	38,958	55,888	46,587	172,930

Source: Hawaii State Department of Labor and Industrial Relations, 1986 Employment and Payrolls in Hawaii (September 1987), p. 16.

Table 386.-- ANNUAL WAGES PER EMPLOYEE, TOTAL AND PRIVATE: 1975 TO 1985

Year	Annual wages per employee (dollars)		Hawaii as percent of U.S.		Rank 1/	
	Total	Private only	Total	Private only	Total	Private only
1975	9,751	9,110	97.5	92.7	20	27
1976	10,309	9,586	96.2	91.0	24	29
1977	10,873	10,029	95.1	89.1	26	33
1978	11,607	10,809	95.8	89.7	29	33
1979	12,335	11,700	94.1	89.4	27	34
1980	13,491	12,695	94.2	88.6	27	37
1981	14,411	13,567	92.2	86.9	32	41
1982	15,353	14,202	92.0	85.5	31	42
1983	16,108	14,898	92.1	85.8	30	40
1984	16,701	15,456	91.0	85.0	31	41
1985	17,329	16,064	90.3	84.7	31	40

1/ Among 50 States and D.C.

Source: U.S. Bureau of Labor Statistics, Employment and Wages, Annual Averages (annual report). Percentages and rankings by the Hawaii State Department of Business and Economic Development.

Table 387.--MINIMUM WAGE CHRONOLOGY: 1942 TO 1988

[Dollars per hour. As of July 1, unless otherwise specified]

Effective date	Oahu	Other islands	Effective date	State	Effective date	State
1942 1/ ..	0.25	0.20	1958	1.00	1975	2.40
1943	0.30	0.25	1962	1.15	1978	2.65
1945	0.40	0.40	1964 2/ ..	1.25	1979	2.90
1953	0.65	0.55	1969	1.40	1980	3.10
1955	0.75	0.65	1970	1.60	1981	3.35
1957	0.90	0.85	1974	2.00	1988 2/ ..	3.85

1/ At inception of minimum wage law, April 1, 1942.

2/ January 1.

Source: Hawaii State Department of Labor and Industrial Relations, records.

Table 388.-- HOURS AND EARNINGS IN SPECIFIED INDUSTRIES: ANNUAL AVERAGES, 1981 TO 1986

Subject	1981	1982	1983	1984	1985	1986
Average weekly earnings (dollars)						
Contract construction	475.31	519.10	587.76	607.37	627.32	642.80
Manufacturing	289.90	301.68	317.68	318.14	323.51	344.65
Food and kindred products ..	274.31	281.86	291.65	292.98	303.32	321.40
Communication and utilities ..	433.70	486.41	486.22	512.09	542.15	582.15
Trade 1/	198.99	214.14	225.12	225.72	228.72	231.62
Wholesale trade	275.88	290.67	302.13	309.75	311.04	326.10
Retail trade 1/	174.27	189.95	199.69	198.13	200.95	200.26
Banking & credit agencies	212.64	222.49	237.73	237.78	267.80	291.78
Hotels	193.64	208.98	222.95	234.57	243.42	259.38
Average weekly hours						
Contract construction	36.2	35.8	37.2	36.9	36.6	36.9
Manufacturing	38.5	37.9	38.6	38.1	37.4	38.9
Food and kindred products ..	39.3	38.4	39.2	38.0	36.9	39.1
Communication and utilities ..	43.5	43.9	41.7	41.0	41.8	42.4
Trade 1/	33.0	33.2	33.4	33.0	33.1	32.9
Wholesale trade	38.0	37.7	38.1	38.1	38.4	38.5
Retail trade 1/	31.4	31.8	31.9	31.3	31.3	31.0
Banking & credit agencies	...	...	...	38.6	38.7	38.8
Hotels	32.6	32.5	32.5	33.8	33.3	34.4
Average hourly earnings (dollars)						
Contract construction	13.13	14.50	15.80	16.46	17.14	17.42
Manufacturing	7.53	7.96	8.23	8.35	8.65	8.86
Food and kindred products ..	6.98	7.34	7.44	7.71	8.22	8.22
Communication and utilities ..	9.97	11.08	11.66	12.49	12.97	13.73
Trade 1/	6.03	6.45	6.74	6.84	6.91	7.04
Wholesale trade	7.26	7.71	7.93	8.13	8.10	8.47
Retail trade 1/	5.55	5.97	6.26	6.33	6.42	6.46
Banking & credit agencies	...	...	...	6.16	6.92	7.52
Hotels	5.94	6.43	6.86	6.94	7.31	7.54

1/ Excludes eating and drinking establishments.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised April 1987.

Table 389.-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN PRIVATE INDUSTRY: 1982 TO 1987

Job classification	1982	1983	1984	1985	1986	1987
MONTHLY RATES						
Junior typist	903	975	1,013	1,036	1,084	1,103
Clerk-stenographer	1,194	1,250	1,296	1,384	1,485	1,583
Secretary	1,199	1,256	1,341	1,407	1,461	1,516
Data entry operator	1,004	1,072	1,134	1,139	1,194	1,218
Bookkeeper, full-charge	1,453	1,580	1,647	1,707	1,794	1,865
Engineering drafting technician	1,648	1,804	1,898	1,952	1,891	2,049
Hospital attendant	939	1,018	1,057	1,101	1,135	1,171
Staff nurse	1,669	1,875	1,978	2,081	2,159	2,287
HOURLY RATES						
Housekeeper	5.193	5.580	5.806	6.078	6.412	6.714
Cook, general	7.505	8.048	8.308	8.626	8.950	8.747
Waiter/waitress	3.377	3.483	3.586	3.676	3.846	3.866
Laborer (light)	6.360	6.506	6.688	6.959	7.187	7.399
Carpenter (maintenance)	9.075	9.362	9.769	10.139	10.405	10.768
Electrician (maintenance) ...	10.327	10.745	11.243	11.529	12.191	12.486
Automotive mechanic	9.543	9.697	10.152	10.191	10.753	11.154
Truck driver (1.5-5 tons) ...	7.708	8.288	8.576	8.853	8.734	9.783

Source: Hawaii Employers Council, Pay Rates in Hawaii (annual).

Table 390.-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN PRIVATE INDUSTRY, BY COUNTIES OR ISLANDS: 1987

[In dollars]

Job classification and year	State average	Kauai	Oahu	Maui County	Hawaii County
MONTHLY RATES					
Junior typist	1,103	...	1,106	...	...
Clerk-stenographer	1,583	...	1,561	...	...
Secretary	1,516	1,488	1,512	1,651	1,448
Data entry operator	1,218	1,321	1,213	...	1,272
Bookkeeper, full-charge	1,865	...	1,830	...	...
Engineering drafting technician	2,049	...	2,080	...	2,044
Hospital attendant	1,171	1,161	1,174	1,152	...
Staff nurse	2,287	2,263	2,289	2,201	...
HOURLY RATES					
Housekeeper	6.714	6.722	6.723	6.643	6.710
Cook, general	8.747	9.289	8.559	8.974	9.953
Waiter/waitress	3.866	4.161	3.808	3.991	4.237
Laborer (light)	7.399	7.373	7.496	7.434	6.182
Carpenter (maintenance)	10.768	10.379	11.202	10.532	9.805
Electrician (maintenance) ..	12.486	11.030	13.311	11.085	13.021
Automotive mechanic	11.154	10.149	12.204	10.580	10.415
Truck driver (1.5-5 tons) ..	9.783	...	10.477	8.609	7.705

Source: Hawaii Employers Council, Pay Rates in Hawaii (Special Publication No. 175, September 1987).

Table 391.-- ANNUAL BASE SALARIES FOR SELECTED EXECUTIVE POSITIONS IN HOTELS AND RESORT CONDOMINIUMS: 1986

[$1,000]

Position	Hotels			Resort condominiums		
	Low	Median	High	Low	Median	High
General manager	20	54	100	18	34	76
Food and beverage manager .	18	34	62	...	...	...
Executive chef	20	34	54	...	...	...
Front office manager	16	22	36	12	19	30
Reservations manager	16	22	48	16	19	24
Executive housekeeper	14	22	56	16	21	45
Controller	20	33	68	...	...	...
Chief engineer	16	36	54	16	22	40

Source: Pannell Kerr Forster, 1986 Hawaii Hotel and Resort Condominium Executive Compensation Survey Report (January 1987).

Table 392.-- MEDIAN AND MEAN ANNUAL EARNINGS IN 1979, BY SEX AND LABOR FORCE STATUS: 1980

[Dollars]

Labor force status	Median earnings		Mean earnings	
	Males	Females	Males	Females
Persons 15 years and over	11,905	7,234	14,650	8,117
Worked in 1979	11,963	7,264	14,672	8,141
50 to 52 weeks	14,510	9,693	17,187	10,640
Usually worked 35 or more hours per week	15,208	10,535	17,843	11,594

Source: U.S. Bureau of the Census, 1980 Census of Population, Detailed Population Characteristics, Hawaii, PC80-1-D13 (October 1983), table 236.

Table 393.-- INTERSTATE MOVEMENT OF JOB-SEEKERS: 1976 TO 1986

Calendar year	Island workers on the Mainland 1/		Mainland workers in Hawaii 2/		Ratio 3/
	Total 4/	Regular only	Total 4/	Regular only	
1976	9,934	7,458	8,994	8,334	112
1977	7,090	5,846	8,846	8,154	139
1978	4,495	4,313	6,533	6,261	145
1979 5/	4,272	4,272	5,285	5,250	123
1980	5,633	5,211	5,196	4,956	95
1981	5,619	5,485	4,552	4,396	80
1982	5,372	5,372	5,259	4,848	90
1983	4,414	4,414	4,891	4,659	106
1984 6/	4,123	4,123	4,237	4,219	102
1985	4,039	4,039	4,034	3,993	99
1986	3,664	3,664	4,000	3,932	107

1/ Interstate liable initial claims (UI and Supp.), excluding UCFE and Supp. and UCX. Covers Hawaii workers seeking work and filing for benefits on the Mainland. Since July 1980, data have included Federal civilian employees and ex-servicemen.

2/ Interstate agent initial claims (UI and Supp.), excluding UCFE and Supp. and UCX. Covers Mainland workers filing claims for unemployment insurance and registered for work with the Hawaii State Employment Service.

3/ Interstate agent initial claims (regular only) as a percent of inter-state liable initial claims (regular only). Ratios under 100 suggest a net out-migration of workers.

4/ Regular and extended claims.

5/ The method of counting liable and agent initial claims was revised effective October 1979. Data for 1979 and later years are accordingly not directly comparable with figures for earlier years.

6/ Revised from Data Book 1986, table 378.

Source: Hawaii State Department of Labor and Industrial Relations, Unemployment Insurance Fact Book (annual), and records.

Table 394.-- WORK DISABILITY STATUS OF CIVILIANS 18 TO 64 YEARS OLD, BY SELECTED CHARACTERISTICS AND SEX: 1980

[Noninstitutional population only]

	With no work disability		With a work disability			
			Not prevented from working		Prevented from working	
Characteristic	Male	Female	Male	Female	Male	Female
Total	240,362	276,721	11,422	8,167	7,796	8,460
Age:						
18 to 34 years old .	119,684	141,698	4,316	3,058	1,739	1,677
35 to 54 years old .	84,246	97,609	4,554	3,165	2,523	3,165
55 to 64 years old .	36,432	37,414	2,552	1,944	3,534	3,618
High school graduates	196,201	224,021	8,404	5,770	3,967	4,099
Labor force status:						
Civilian labor force	213,904	186,044	9,764	5,091	-	-
Employed	205,090	177,834	8,588	4,635	-	-
Unemployed	8,814	8,210	1,176	456	-	-
Not in labor force .	26,458	90,677	1,658	3,076	7,796	8,460
Income in 1979:						
With income	230,470	221,878	10,915	6,637	7,036	5,711
Median income	$14,541	$7,571	$10,927	$5,394	$5,813	$3,391
Below poverty level ..	14,617	24,682	1,407	1,233	1,700	2,119

Source: U.S. Bureau of the Census, 1980 Census of Population, Selected Characteristics of Persons With a Work Disability by State: 1980, PC80-S1-20 (November 1985), pp. 58-59.

Table 395.-- RECORDABLE OCCUPATIONAL INJURIES AND ILLNESSES OF NONGOVERNMENTAL WORKERS: 1984 AND 1985

[Data exclude agricultural employers with fewer than 11 employees]

Subject	1984: total	1985		
		Total	Injuries	Illnesses
Recordable cases	25,999	26,026	25,546	480
Lost workday cases	14,058	13,801	13,570	231
Lost workdays	220,294	202,260	197,210	5,050
Per lost workday case	16	15	15	22
Nonfatal cases without lost workdays.	11,930	12,205	11,960	245
Number of recordable cases:				
Agriculture	1,588	1,740	1,701	39
Mining	11	15	15	-
Construction	2,703	3,177	3,161	16
Manufacturing	2,711	2,550	2,525	25
Transportation, public utilities ..	2,907	2,923	2,868	55
Wholesale and retail trade	7,391	7,689	7,586	103
Finance, insurance, real estate ...	1,197	921	908	13
Services	7,491	7,011	6,782	229
Incidence per 100 full-time workers .	10.0	9.6	9.5	0.2
Agriculture	18.3	21.0	20.5	0.5
Mining	3.6	4.1	4.1	-
Construction	21.5	22.7	22.6	0.1
Manufacturing	13.5	13.0	12.9	0.1
Transportation, public utilities ..	11.1	10.6	10.4	0.2
Wholesale and retail trade	9.0	8.9	8.8	0.1
Finance, insurance, real estate ...	4.3	3.4	3.4	(Z)
Services	9.1	8.0	7.8	0.3

Z Less than 0.05.

Source: Hawaii State Department of Labor and Industrial Relations, 1985 Occupational Injuries and Illnesses Survey, State of Hawaii, p. 5.

Table 396.-- WORK INJURIES, DEATHS, TIME LOST, AND COMPENSATION COSTS: 1981 TO 1986

Year	Accidents	Deaths	Time lost (compensated days)	Compensation costs ($1,000)
1981 ...	44,320	36	894,058	66,950
1982 ...	40,521	47	1,057,504	90,778
1983 ...	39,013	48	1,141,746	103,338
1984 ...	38,755	35	1,307,011	122,454
1985 ...	37,940	49	1,262,513	136,837
1986 ...	39,390	47	1,067,462	127,367

Source: Hawaii State Department of Labor and Industrial Relations, Work Injury Statistics (annual).

Table 397.-- LABOR UNIONS AND EMPLOYEE ASSOCIATIONS: 1985

Subject	Total	AFL-CIO affiliated	Independent
Unions and associations ...	82	56	26
Membership 1/	157,000	104,000	53,000

1/ Data exclude 12 unions and associations not reporting membership.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Organizations & Affiliates, 1986 (December 1985).

Table 398.-- UNION MEMBERSHIP: 1975 TO 1982

[Data represent annual average, dues-paying full-time equivalent membership derived from financial records. Excludes unemployed members]

Subject	1975	1980	1982
Union membership (in thousands)	117	129	126
Percent of nonagricultural employment ...	34.3	31.8	31.5

Source: Industrial Relations Data and Information Services, cited in Statistical Abstract of the United States: 1987, p. 408.

Table 399.-- COLLECTIVE BARGAINING AGREEMENTS: 1982 TO 1987

[Covers collective bargaining agreements subject to wage negotiations]

Year	Number of agreements	Workers covered		Duration over 2 years (percent)	
		Total	Per agreement	Agreements	Workers
1982	379	27,400	72	84.4	65.9
1983	1,019	68,000	67	90.3	20.4
1984	901	26,200	29	93.7	76.7
1985	350	58,450	167	74.3	11.7
1986	138	13,550	98	60.2	44.1
1987 1/ ..	1,375	80,400	58	96.4	42.9

1/ Scheduled.

Source: Helene S. Tanimoto, Duration of Collective Bargaining Agreements in Hawaii, 1987 (University of Hawaii at Manoa, Industrial Relations Center, Occasional Publication No. 157, January 1987).

Table 400.-- STATE AND COUNTY EMPLOYEES IN COLLECTIVE BARGAINING UNITS: 1984 TO 1986

[As of December 31]

Jurisdiction or unit	1984	1985	1986
Total	42,171	42,525	42,907
Employing jurisdiction:			
State of Hawaii	18,597	18,820	18,952
City and County of Honolulu	7,471	7,366	7,418
County of Hawaii	1,319	1,338	1,346
County of Maui	994	988	1,028
County of Kauai	682	674	674
Dept. of Education	9,582	9,738	9,787
University of Hawaii	3,526	3,601	3,702
Bargaining unit:			
1 Nonsupervisory blue collar	7,683	7,681	7,703
2 Supervisory blue collar	764	745	745
3 Nonsupervisory white collar	9,500	9,395	9,529
4 Supervisory white collar	521	506	505
5 Teachers, Dept. of Education	9,044	9,185	9,221
6 Educational officers, DOE	538	553	566
7 University faculty	2,719	2,768	2,818
8 University personnel, exc. faculty	807	833	884
9 Registered nurses	777	739	732
10 Nonprofessional hospital workers	1,956	1,997	1,965
11 Firefighters	1,509	1,505	1,521
12 Police officers	2,143	2,123	2,153
13 Professional and scientific	4,210	4,495	4,565

Source: Hawaii Labor Relations Board (formerly Hawaii Public Employment Relations Board), HLRB Information Bulletin, No. 24, April 30, 1987, and earlier issues.

Table 401.-- WORK STOPPAGES: 1982 TO 1986

[Data exclude stoppages lasting less than one full shift (8 hours) and stoppages affecting fewer than 6 workers, and moreover are limited to stoppages begun or in progress during the week containing the 12th of each month during the year]

Year	Number of stoppages 1/	Workers involved 1/	Man-days lost 2/
1982	7	911	14,480
1983	7	2,838	44,411
1984	6	2,063	123,486
1985 3/	9	1,990	32,257
1986	6	1,266	49,533

1/ Stoppages carrying over from previous year are counted in both years.

2/ Partly estimated.

3/ Revised from Data Book 1986, table 385.

Source: Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, records.

Table 402.-- WORK STOPPAGES INVOLVING 1,000 OR MORE WORKERS: 1982 TO 1986

Year	Number of stoppages begun in year	Workers involved 1/	Man-days idle during year	Percent of estimated nonagricultural working time
1982	-	-	-	0
1983	1	2,800	5,600	0.01
1984	1	1,000	70,000	0.01
1985	1	1,000	11,000	0.01
1986	-	-	-	0

1/ Workers counted more than once if involved in more than one stoppage during year.

Source: U.S. Department of Labor, Bureau of Labor Statistics, records.

Section 13

INCOME, EXPENDITURES, AND WEALTH

This section presents statistics on two different aspects of income and expenditures, one relating to the state income and product system and the other to the distribution of income to families, households and individuals. Specifically, information is given on gross state product, income by industry, personal, family and household income, poverty, personal wealth, and family expenditures. Data on wage rates, salaries, and earnings appear in Sections 3, 9, 12, and 22; on industrial payrolls, in Sections 12, 15, and 20 through 23; on the family income of visitors, in Section 7; on retirement payments and public assistance, in Sections 10 and 11; on taxable income, in Section 9.

Gross state product in 1985 was about $17 billion. The major sources of outside income to Hawaii in 1986 were defense expenditures ($1.8 billion), pineapple production ($242 million), sugar production ($362 million), and visitor expenditures ($5.55 billion). Personal income in 1986 was $15.8 billion, compared with $6.7 billion only ten years earlier, and per capita personal income was $14,900, almost twice the 1976 level. The per capita figure for Hawaii was slightly above the national average, but not high enough to compensate for the Islands' much higher cost of living. The median annual income of families, based on data for 1986, was $34,700; for unrelated individuals, the median was $14,900. The official poverty threshold for a 4-person family in Hawaii was set in February 1987 at $12,880. The most recent family expenditure survey, taken in 1982 and 1983, reported that the largest items in the family budget on Oahu were housing (accounting for 27.5 percent of total spending), food (18.4 percent) and transportation (18.2 percent). Top wealthholders in 1982 included 14,000 persons with assets of $300,000 or more and 800 millionaires.

The chief sources of data shown in this section are the U.S. Bureau of Economic Analysis, U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, U.S. Department of Health and Human Services, Internal Revenue Service, Hawaii Agricultural Statistics Service, Hawaii State Department of Business and Economic Development, and Hawaii Visitors Bureau. Sections 6 and 7 of Historical Statistics of Hawaii present data for earlier years. Comparable data for the country as a whole are given in Statistical Abstract of the United States: 1987, Section 14.

Table 403.-- DIRECT INCOME FROM MAJOR EXPORT INDUSTRIES: 1960 TO 1986

[In millions of dollars]

Year	Total for four major industries	Value of production		Defense expenditures 2/	Visitor expenditures 3/
		Raw sugar and molasses 1/	Fresh and processed pineapple		
1960 ...	720	118.4	119.4	351.4	131
1961 ...	771	136.5	117.5	379.9	137
1962 ...	766	149.3	115.0	348.0	154
1963 ...	839	181.7	123.7	347.5	186
1964 ...	879	154.6	126.9	392.6	205
1965 ...	948	165.7	126.7	430.2	225
1966 ...	1,076	179.6	127.7	488.4	280
1967 ...	1,255	180.3	133.3	561.4	380
1968 ...	1,331	189.1	127.5	574.6	440
1969 ...	1,480	179.0	125.4	625.9	550
1970 ...	1,561	187.8	138.6	639.4	595
1971 ...	1,758	202.9	141.4	708.8	705
1972 ...	1,914	184.7	145.4	744.2	840
1973 ...	2,226	222.2	142.4	840.9	1,020
1974 ...	2,927	676.6	127.1	897.9	1,225
1975 ...	2,846	366.1	136.7	982.8	1,360
1976 ...	3,076	257.0	144.5	1,034.2	1,640
1977 ...	3,320	226.8	161.6	1,086.6	1,845
1978 ...	3,750	285.2	162.8	1,155.5	2,146
1979 ...	4,311	345.7	206.4	1,221.8	2,537
1980 ...	5,013	594.1	226.5	1,317.4	2,875
1981 ...	5,195	327.9	217.6	1,449.3	3,200
1982 ...	5,951	351.5	206.0	1,693.4	3,700
1983 ...	6,451	410.2	219.0	1,848.2	3,974
1984 ...	7,092	393.0	249.6	1,867.2	4,582
1985 ...	7,429	340.8	222.5	1,965.4	4,900
1986 ...	7,939	361.9	242.0	1,784.9	5,550

1/ Excludes government sugar support payments.

2/ Does not include military retired pay, Hawaii National Guard expenditures, or U.S. Army Corps of Engineers contracts.

3/ Direct visitor expenditures in Hawaii, exclusive of transpacific transportation and expenditures of carriers and crews.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual) and records; data supplied to DPED by armed forces; Hawaii Visitors Bureau, 1986 Annual Research Report, table 1.

Table 404.-- GROSS STATE PRODUCT AND PER CAPITA GROSS STATE PRODUCT: 1958 TO 1986

[For projections to 1991, see table 411]

Year	Gross state product (thousands of dollars)		Per capita gross state product (dollars)	
	Current dollars	1982 dollars	Current dollars	1982 dollars
1958	1,414,964	4,115,775	2,337	6,799
1959	1,572,503	4,607,658	2,528	7,407
1960	1,805,090	5,224,929	2,814	8,145
1961	1,886,511	5,229,222	2,864	7,939
1962	1,965,769	5,459,636	2,876	7,988
1963	2,101,812	5,593,061	3,081	8,198
1964	2,301,335	6,145,383	3,288	8,781
1965	2,350,438	6,677,279	3,340	9,487
1966	2,771,409	7,055,855	3,902	9,933
1967	2,990,024	7,312,564	4,138	10,121
1968	3,344,500	7,913,222	4,554	10,774
1969	3,952,266	8,884,798	5,268	11,843
1970	4,414,039	9,309,703	5,720	12,065
1971	4,773,823	9,797,100	5,955	12,221
1972	5,305,387	10,455,311	6,405	12,622
1973	6,009,311	10,975,563	7,057	12,888
1974	6,901,698	10,953,462	7,951	12,620
1975	7,411,268	11,601,888	8,363	13,092
1976	7,933,371	11,747,134	8,774	12,992
1977	8,597,376	12,105,930	9,363	13,184
1978	9,627,637	12,491,630	10,335	13,409
1979	10,906,430	12,985,191	11,441	13,621
1980	12,225,729	13,700,639	12,619	14,141
1981	13,078,262	14,028,215	13,343	14,312
1982	13,691,047	13,691,047	13,725	13,725
1983	14,811,784	14,207,807	14,541	13,948
1984	15,826,526	14,635,599	15,276	14,127
1985	16,813,829	15,047,567	15,991	14,311
1986 1/	18,054,800	15,754,600	16,996	14,831

1/ Preliminary.

Source: Hawaii State Department of Business and Economic Development, Hawaii's Income and Product Accounts: 1958 to 1985 (forthcoming), and unpublished preliminary 1986 estimates.

Table 405.-- EXPENDITURES ON GROSS STATE PRODUCT: 1983 TO 1985

[In millions of current dollars]

Item	1983	1984	1985
Gross state product	14,811.8	15,826.5	16,813.8
Personal consumption expenditures 1/	9,356.5	10,052.7	10,606.6
Food, alcoholic beverages and tobacco	3,156.5	3,353.4	3,630.5
Clothing, accessories and jewelry	966.9	1,003.2	1,123.9
Personal care	132.9	143.5	152.1
Housing	2,901.3	3,209.2	3,403.1
Household operation	1,172.0	1,371.5	1,366.8
Medical care	1,028.3	1,114.1	1,192.9
Personal business	755.0	826.1	965.4
Transportation	1,523.6	1,744.7	1,731.6
Recreation	1,212.5	1,346.2	1,371.5
Private education and research	110.9	116.4	125.4
Religious and welfare activities	113.2	136.9	145.6
Foreign travel and other, net	-3,716.7	-4,312.7	-4,602.0
Gross private domestic investment	3,988.0	4,600.0	4,904.0
Fixed investment	1,633.8	1,424.4	1,608.5
Change in business inventories	-43.8	-	61.3
Government purchases of goods and services (f)	5,158.2	5,324.7	5,620.5
State and local	2,456.5	2,523.5	2,538.6
Compensation of employees	1,291.9	1,352.7	1,402.0
Other current expenditures	778.4	786.8	791.5
Equipment	49.2	53.1	56.4
Construction	336.9	330.9	288.6
Federal	2,701.7	2,801.2	3,082.0
Defense	2,556.5	2,653.0	2,810.1
Non-defense	145.2	148.2	271.9
Net exports	-1,725.7	-978.7	-1,262.8
Exports	7,347.5	8,142.0	8,449.0
Commodities	1,440.7	1,419.8	1,336.3
Services	1,918.8	2,122.1	2,208.7
Visitor and crew expenditures	3,988.0	4,600.0	4,904.0
Less: Imports	9,073.2	9,120.7	9,711.8
Commodities	6,461.9	6,568.0	6,981.2
Services	2,340.0	2,265.3	2,428.6
Out-of-state expenditures of Hawaii residents	271.3	287.3	302.0
Discrepancy and omissions	432.9	3.4	179.7

Footnotes and source follow table 410

Table 406.-- EXPENDITURES ON GROSS STATE PRODUCT (1982 DOLLARS): 1983 TO 1985

[In millions of 1982 dollars]

Item	1983	1984	1985
Gross state product	14,210.1	14,637.3	15,046.4
Personal consumption expenditures 1/	8,996.8	9,319.5	9,506.5
Food, alcoholic beverages and tobacco	3,046.1	3,109.1	3,268.7
Clothing, accessories and jewelry	949.8	980.8	1,027.9
Personal care	126.0	131.2	134.1
Housing	2,752.2	2,840.8	2,742.0
Household operation	1,148.9	1,310.7	1,292.7
Medical care	956.1	966.1	966.9
Personal business	679.1	706.6	790.4
Transportation	1,496.2	1,706.2	1,687.7
Recreation	1,184.6	1,291.3	1,291.3
Private education and research	106.2	106.7	110.6
Religious and welfare activities	109.7	127.9	133.3
Foreign travel and other, net	-3,558.3	-3,958.0	3,939.1
Gross private domestic investment	1,588.3	1,410.9	1,628.6
Fixed investment	1,631.2	1,410.9	1,572.9
Change in business inventories	-42.9	-	55.8
Government purchases of goods and services (f)	5,057.7	5,015.4	5,115.9
State and local	2,411.8	2,380.9	2,312.7
Compensation of employees	1,264.1	1,271.4	1,275.7
Other current expenditures	761.7	739.5	720.2
Equipment	49.4	53.8	57.5
Construction	336.6	316.3	259.3
Federal	2,645.9	2,634.4	2,803.2
Defense	2,503.7	2,495.0	2,555.9
Non-defense	142.2	139.4	247.3
Net exports	-1,856.3	-1,111.7	-1,368.1
Exports	7,183.9	7,814.1	7,903.7
Commodities	1,392.7	1,410.3	1,378.4
Services	1,970.0	2,178.8	2,315.2
Visitor and crew expenditures	3,821.2	4,225.0	4,210.2
Less: Imports	9,040.1	8,925.8	9,271.9
Commodities	6,575.9	6,559.3	6,790.9
Services	2,201.3	2,099.5	2,209.9
Out-of-state expenditures of Hawaii residents	262.9	267.0	271.1
Discrepancy and omissions	423.5	3.2	163.5

Footnotes and source follow table 410.

Table 407.-- CHARGES AGAINST GROSS STATE PRODUCT: 1983 TO 1985

[In millions of current dollars]

Item	1983	1984	1985
Compensation of employees	9,768.6	10,365.1	11,094.2
Wage and salary disbursements	8,142.0	8,620.3	9,208.9
Supplements to wages and salaries	1,626.6	1,744.8	1,885.3
Employer contributions for social insurance	925.8	987.6	1,068.5
State and local government programs	158.4	172.9	188.9
Federal government programs	767.4	814.6	879.6
Other labor income	700.7	757.2	816.9
Proprietors' income	910.3	947.6	1,003.1
Rental income of persons	104.8	84.8	84.6
Corporate profits before tax	583.7	702.4	661.0
Profits tax	85.1	178.4	189.0
State and local tax	29.5	42.8	48.7
Federal tax	55.6	135.5	140.3
Profits after tax	498.6	524.0	472.0
Dividends	272.3	298.4	303.5
Undistributed profits	226.3	225.6	168.5
Net interest	1,207.1	1,363.2	1,471.3
Personal interest income	-118.9	-130.8	-148.5
Less: Government interest, net	-128.9	-143.1	-162.2
State and local (incl. state retirement fund) Federal	10.0	12.3	13.7
Less: Interest paid by consumers to business	372.3	447.0	450.4
Net state income	12,574.4	13,463.1	14,314.2
Business transfer payments	72.0	80.9	92.1
Indirect business tax and non-tax, state and local	1,148.9	1,219.4	1,279.6
Less: Subsidies less current surplus of state and local government enterprises	-16.8	-16.0	-12.7
Indirect business tax and non-tax, Federal	69.0	79.8	75.3
Less: Subsidies less current surplus of Federal government enterprises	-65.9	-62.3	-86.7
Net state product	13,947.1	14,921.5	15,860.6
Capital consumption allowances	864.7	905.0	953.2
Gross state product	14,811.8	15,826.5	16,813.8

Footnotes and source follow table 410.

Table 408.-- TOTAL PERSONAL CONSUMPTION EXPENDITURES: 1983 TO 1985

[In millions of current dollars]

Item	1983	1984	1985
Personal consumption expenditures 1/	9,356.5	10,052.7	10,606.6
Food, alcoholic beverages and tobacco	3,156.5	3,353.4	3,630.5
Food and alcohol, at home	1,452.0	1,523.8	1,638.2
Food and alcohol, away from home	1,600.1	1,725.3	1,890.3
Tobacco	104.4	104.3	101.9
Clothing, accessories and jewelry	966.9	1,003.2	1,123.9
Clothing and accessories	570.0	594.0	675.1
Footwear and upkeep	135.7	141.6	158.0
Jewelry	261.2	267.6	290.8
Personal care	132.9	143.5	152.1
Housing	2,901.3	3,209.2	3,403.1
Owner-occupied	766.9	820.0	874.4
Tenant-occupied	793.3	844.3	890.5
Rental value of farm dwellings	19.0	20.2	21.1
Hotels and other group quarters	1,322.1	1,524.7	1,617.2
Household operation	1,172.0	1,371.5	1,366.8
Furnishings	650.7	760.6	757.8
Utilities, telephone, and other services	521.4	611.0	609.0
Medical care	1,028.3	1,114.1	1,192.9
Drugs and orthopedic appliances	225.8	246.6	261.4
Hospitals and other professional services ...	688.9	754.7	818.7
Health insurance	113.6	112.8	112.8
Personal business	755.0	826.1	965.4
Transportation	1,523.6	1,744.7	1,731.6
Private (user-operated)	1,204.7	1,414.5	1,389.5
Public	318.8	330.2	342.1
Recreation	1,212.5	1,346.2	1,371.5
Books, radios, TV and other durables	448.8	503.7	472.4
Sport supplies, flowers & other non-durables	180.7	190.6	201.5
Movies, spectator sports and other services .	583.0	651.9	697.6
Private education and research	110.9	116.4	125.4
Religious and welfare activities	113.2	136.9	145.6
Foreign travel and other, net	-3,716.7	-4,312.7	-4,602.0
Out-of-State expenditures of residents	271.3	287.3	302.0
Less: Visitor expenditures	3,988.0	4,600.0	4,904.0
Addenda: Total durables	1,955.2	2,263.8	2,189.6
Total nondurables	4,731.4	5,028.6	5,451.4
Total services	2,669.9	2,760.3	2,965.6

Footnotes and source follow table 410.

Table 409.-- HAWAII'S EXPORTS AND IMPORTS OF GOODS AND SERVICES: 1983 TO 1985

[In millions of dollars]

Classification	1983	1984	1985
Hawaii's exports of goods and services	7,347.5	8,142.0	8,449.0
Merchandise exports	1,440.7	1,419.8	1,336.3
Primary	592.3	571.2	480.4
Sugar and molasses	385.9	351.5	302.3
Pineapple	206.4	219.7	178.2
Secondary	139.9	142.2	149.0
Garments	29.5	30.5	33.6
Canned tuna	28.9	25.0	21.1
Flowers	22.0	21.6	24.3
Papaya	10.9	9.0	6.1
Macadamia nuts and coffee	24.3	30.1	36.0
All other	24.3	26.0	27.9
Miscellaneous	708.5	706.4	706.9
Other processed foods and feeds	23.2	23.0	23.0
Fuels and petroleum products	161.7	158.3	155.1
All other	523.6	525.3	528.8
Services and income from investments	1,918.8	2,122.1	2,208.7
Visitors and crew expenditures	3,988.0	4,600.0	4,904.0
Hawaii's imports of goods and services	9,073.2	9,120.7	9,711.8
Merchandise imports	6,461.9	6,568.0	6,981.2
Domestic waterborne	4,856.6	5,047.9	5,290.2
Farm products	56.1	52.6	55.1p
Processed foods and feed	523.9	587.5	615.7p
Fuels and petroleum products	1,436.2	1,550.0	1,624.4p
Metallic ores and metal	195.6	197.5	207.0p
Pulp, paper and paper products	190.7	221.9	232.6p
Non-metal products and mineral	158.1	149.0	156.1p
Lumber, forest and wood	74.2	94.3	98.8p
Chemicals and products	163.1	181.9	190.7p
Machinery	129.0	144.7	151.6p
Transportation equipment	346.5	393.6	412.5p
Manufactured goods	405.9	385.8	404.4p
Misc. and containerized cargo	1,177.4	1,089.3	1,141.5p
Domestic airborne	239.7	261.5	274.0
Foreign, total	1,365.5	1,258.6	1,417.0
Fuels and petroleum products	778.2	519.5	581.7
Transportation equipment	171.4	217.3	253.9
Manufactured goods	142.1	167.1	173.3
All other	273.8	354.7	408.1
Services and income from investments	2,340.0	2,265.3	2,428.6
Out-of-State expenditures by Hawaii residents	271.3	287.3	302.0

Footnotes and source follow table 410.

Table 410.-- SUMMARY OF GOVERNMENT ACCOUNTS, STATE AND LOCAL, AND FEDERAL: 1983 TO 1985

[In millions of current dollars]

Item	1983	1984	1985f
Total revenues, State and local (HIE)	2,659.9	2,842.4	2,957.7
State and local tax and non-tax	2,169.1	2,344.4	2,466.9
Personal tax and non-tax	747.1	821.0	856.4
Corporate profits tax	29.5	42.8	48.7
Indirect business tax and non-tax	1,148.9	1,219.4	1,279.6
Contributions to social insurance programs ...	243.6	261.1	282.3
Employers'	158.4	172.9	188.9
Personal	85.3	88.2	93.4
Federal grants-in-aid	490.7	498.0	490.8
Total expenditures, State and local (HIE) .	2,581.0	2,645.7	2,657.6
Purchases of goods and services	2,456.5	2,523.5	2,538.6
Compensation of employees	1,291.9	1,352.7	1,402.0
Purchases from business	1,164.6	1,170.8	1,136.5
Transfer payments to persons	270.3	281.2	294.0
Net interest paid	-128.9	-143.1	-162.2
Interest paid (by government)	185.9	203.8	210.3
Less: Interest received (by government)	314.8	346.9	372.5
Subsidies less current surplus of gov. ent. 2/ .	-16.8	-16.0	-12.7
Surplus or deficit (-), State & local (HIE)	78.8	196.7	300.1
Total revenues, Federal	4,668.2	4,837.2	5,195.7
Federal tax and non-tax revenues	1,937.5	2,113.4	2,240.6
Personal tax and non-tax	527.8	524.0	519.8
Corporate profits tax	55.6	135.5	140.3
Indirect business tax and non-tax	69.0	79.8	75.3
Contributions for social insurance programs ..	1,285.2	1,374.0	1,505.2
Employers	767.4	814.6	879.6
Personal	517.7	559.4	625.6
Transfers from Federal gov. in Washington, D.C.	2,730.6	2,723.9	2,955.1
Total expenditures, Federal	4,668.2	4,837.2	5,195.7
Purchases of goods and services, (GSP)	2,701.7	2,801.2	3,082.0
Transfer payments to persons	1,531.7	1,588.1	1,700.9
Grants-in-aid to State and local government	490.7	498.0	485.8
Net interest paid (to persons) (p)	10.0	12.3	13.7
Subsidies less current surplus of gov. ent.	-65.9	-62.3	-86.7

f Fiscal year data; p preliminary data.

1/ Refers to purchases in Hawaii.

2/ State and local governments paid no subsidies during this period.

Source: Hawaii State Department of Business and Economic Development, Hawaii's Income and Product Accounts: 1958 to 1985 (forthcoming).

Table 411.-- INCOME PROJECTIONS: 1980 TO 2005

[Constant 1980 dollars. Series M-F projections]

Year	Gross State product (millions)	Personal income (millions)	Disposable personal income (millions)	Per capita personal income (dollars)
1980 (revised) .	11,878.3	10,309.8	8,800.4	10,648
1985 (revised) .	(NA)	11,310.9	9,795.1	10,733
1990	14,061.8	12,896.3	11,026.3	11,328
1995	16,192.3	14,774.3	12,632.0	12,195
2000	18,264.4	16,611.9	14,203.1	13,103
2005	20,180.8	18,336.8	15,678.0	13,998

NA Not available.

Source: Hawaii State Department of Planning and Economic Development, Population and Economic Projections for the State of Hawaii, 1980-2005 (July 1984), p. 15; U.S. Bureau of Economic Analysis microfiche dated August 1986, adjusted to 1980 constant dollars by DBED.

Table 412.-- PROJECTED PERSONAL INCOME, TOTAL AND PER CAPITA, FOR THE STATE AND OAHU: 1983 TO 2015

Subject	1983	1990	1995	2000	2005	2015
Total personal income: 1/						
State total	5,804	7,212	8,109	9,006	9,922	11,566
Oahu	4,749	5,814	6,486	7,149	7,824	9,042
Per capita personal income: 2/						
State total	5,701	6,517	7,018	7,461	7,884	8,587
Oahu	5,944	6,829	7,349	7,802	8,228	8,954

1/ Millions of 1972 dollars.
2/ 1972 dollars.

Source: U.S. Bureau of Economic Analysis, 1985 OBERS BEA Regional Projections (1985), Vol. 1, pp. 26-27, and Vol. 2, p. 146.

Table 413.-- TOTAL AND PER CAPITA PERSONAL INCOME AND DISPOSABLE PERSONAL INCOME: 1969 TO 1986

[Revised from *Data Book 1986*, table 397]

Year	Personal income (millions of dollars)		Per capita personal income (dollars)		Per capita personal income as percent of U.S. average	
	Total	Disposable	Total	Disposable	Total	Disposable
1969 ...	3,277	2,747	4,411	3,698	116	114
1970 ...	3,772	3,191	4,944	4,182	122	120
1971 ...	4,060	3,478	5,129	4,394	119	118
1972 ...	4,473	3,780	5,468	4,620	117	116
1973 ...	4,967	4,204	5,901	4,993	114	112
1974 ...	5,702	4,861	6,645	5,665	118	117
1975 ...	6,159	5,374	7,038	6,141	116	116
1976 ...	6,670	5,783	7,474	6,480	112	113
1977 ...	7,210	6,213	7,873	6,784	108	108
1978 ...	8,043	6,898	8,660	7,427	106	107
1979 ...	9,031	7,711	9,506	8,116	105	106
1980 ...	10,279	8,776	10,616	9,064	107	108
1981 ...	11,052	9,419	11,276	9,609	103	104
1982 ...	11,736	10,217	11,765	10,242	102	105
1983 ...	12,843	11,068	12,608	10,866	104	105
1984 ...	13,636	11,894	13,161	11,480	100	102
1985 ...	14,805	12,824	14,080	12,196	101	103
1986 ...	15,814	13,696	14,886	12,893	102	103

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated August 1987.

Table 414.-- PER CAPITA PERSONAL INCOME IN CURRENT AND CONSTANT DOLLARS: 1970 AND 1986

Subject	Value	Subject	Value
Per capita personal income: 1/		Percent increase, 1970-86: 3/	
1970	4,944	Current dollars	201.1
1986	14,886	Constant dollars	14.2
In 1970 dollars 2/	5,646		
		Rank: 4/	
Percent of U.S. average:		1970	4
1970	122.0	1986	17
1986	101.7	Percent increase	51

1/ In dollars. U.S. values were $4,051 in 1970 and $14,641 in 1986 ($5,185 in 1970 dollars).

2/ Based on Honolulu CPI-W for 1970 (114.2) and CPI-U for 1986 (301.1).

3/ U.S. increases were 261.4 percent in current dollars and 28.0 percent in constant dollars).

4/ Among 50 States and D.C.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated August 1987. Constant dollar values calculated by DBED.

Table 415.-- PERSONAL INCOME: QUARTERLY, 1982 TO 1987

[In millions of dollars. Seasonally adjusted at annual rates]

Quarter	1982	1983	1984	1985	1986	1987
First	11,487	12,541	13,409	14,232	15,267	16,158
Second	11,678	12,717	13,649	14,412	15,486	...
Third	11,914	12,812	13,800	14,627	15,774	...
Fourth	12,016	13,377	13,903	14,962	15,955	...

Source: U.S. Bureau of Economic Analysis, Survey of Current Business, July 1987, pp. 133-134.

Table 416.-- PERSONAL INCOME BY MAJOR SOURCES: 1981 TO 1986

[In millions of dollars. Revised from Data Book 1986, table 400]

Item	1981	1982	1983	1984	1985	1986
Labor and proprietors income						
By type:						
Wage and salary disbursements ..	7,176	7,647	8,117	8,584	9,169	9,757
Other labor income	566	641	701	752	773	827
Proprietors income	638	670	904	937	1,066	1,206
Farm	82	88	181	116	134	166
Nonfarm	556	582	723	822	932	1,040
By industry:						
Farm	220	246	333	268	285	318
Nonfarm	8,159	8,713	9,388	10,005	10,722	11,472
Private	5,592	5,841	6,345	6,780	7,299	7,949
Government and govt. enterprises	2,567	2,872	3,042	3,225	3,423	3,523
Federal, civilian	720	797	860	919	963	950
Federal military	910	1,041	1,094	1,175	1,267	1,298
State and local	938	1,034	1,088	1,131	1,193	1,276
Derivation of personal income						
Labor and proprietors income	8,380	8,959	9,721	10,273	11,008	11,790
Less: Personal contributions for social insurance	506	561	586	628	678	731
Net labor and proprietors income .	7,874	8,398	9,134	9,645	10,330	11,059
Plus: Dividends, interest, and rent	1,638	1,648	1,837	2,049	2,179	2,343
Plus: Transfer payments	1,540	1,691	1,872	1,942	2,296	2,412
Personal income	11,052	11,736	12,843	13,636	14,805	15,814

Source: U.S. Department of Commerce, Bureau of Economic Analysis, microfiche dated August 1987.

Table 417.-- TOTAL PERSONAL INCOME, BY COUNTIES: 1959 TO 1984

[Millions of dollars]

Year	State total 1/	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui and Kalawao
1959	1,282.5	1,061.4	221.1	100.3	49.5	71.3
1962	1,635.0	1,369.0	266.0	122.0	59.1	84.9
1965	2,050.5	1,718.8	331.7	149.2	73.0	109.5
1966	2,245.0	1,881.4	363.6	164.5	79.9	119.2
1967	2,433.6	2,044.0	389.6	172.4	86.5	130.7
1968	2,725.7	2,291.4	434.4	195.6	94.2	144.5
1969	3,113.9	2,632.6	481.3	217.0	103.6	160.7
1970	3,566.0	3,011.1	554.9	258.0	112.7	184.3
1971	3,823.2	3,213.7	609.5	285.3	122.4	201.8
1972	4,177.8	3,521.6	656.2	309.4	128.5	218.3
1973	4,650.4	3,915.4	735.0	340.8	146.4	247.7
1974	5,297.7	4,362.7	935.0	457.8	180.4	296.8
1975	5,785.4	4,799.7	985.7	463.6	185.9	336.2
1976	6,222.5	5,159.2	1,063.3	486.5	201.4	375.4
1977	6,975.0	5,786.3	1,188.6	531.9	227.3	429.4
1978	7,771.4	6,434.6	1,336.8	579.1	257.2	500.5
1979	8,684.9	7,162.4	1,522.4	651.7	291.7	579.0
1980	9,810.5	8,028.5	1,782.0	789.8	337.8	654.4
1981	10,878.3	8,939.9	1,938.5	846.8	369.6	722.1
1982	11,592.6	9,493.2	2,099.4	902.6	394.5	802.3
1983	12,553.4	10,274.4	2,279.0	977.4	425.5	876.0
1984	13,532.2	11,039.2	2,493.1	1,063.8	464.6	964.7

1/ For subsequent revisions in State totals, see table 413.
Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated April 1984, April 1985, and April 1986.

Table 418.-- PER CAPITA PERSONAL INCOME, BY COUNTIES: 1959 TO 1984

[Dollars]

Year	State total 1/	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui and Kalawao
1959	2,103	2,201	1,731	1,695	1,821	1,725
1962	2,504	2,618	2,045	2,044	2,105	2,007
1965	2,938	3,052	2,460	2,419	2,531	2,470
1966	3,221	3,337	2,730	2,712	2,810	2,703
1967	3,437	3,558	2,917	2,853	3,022	2,936
1968	3,791	3,922	3,224	3,201	3,232	3,253
1969	4,191	4,363	3,449	3,440	3,448	3,462
1970	4,674	4,827	3,988	4,059	3,803	4,007
1971 2/	4,769	4,909	4,146	4,258	3,961	4,110
1972	5,107	5,297	4,281	4,425	4,034	4,240
1973	5,524	5,726	4,650	4,678	4,501	4,702
1974	6,174	6,250	5,841	6,196	5,545	5,531
1975	6,612	6,781	5,896	6,005	5,581	5,933
1976	6,973	7,196	6,061	6,045	5,791	6,239
1977	7,617	7,873	6,575	6,439	6,417	6,842
1978	8,367	8,689	7,099	6,761	7,007	7,589
1979	9,141	9,506	7,743	7,317	7,674	8,326
1980	10,129	10,498	8,746	8,510	8,583	9,141
1981	11,090	11,596	9,232	8,838	9,168	9,778
1982	11,642	12,204	9,633	9,018	9,419	10,562
1983	12,328	12,965	10,093	9,501	9,883	10,968
1984	13,028	13,709	10,679	9,998	10,564	11,611

1/ For subsequent revisions in State per capita estimates, see table 413.

2/ Recalculated by DPED, using population estimates in Data Book 1986, table 5. The original BEA values for 1971 were based on faulty estimates.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated April 1984, April 1985, and April 1986.

Table 419.-- UNREPORTED OR ILLEGAL INCOME: 1981

[In millions of dollars. Data are rough estimates of income from the "underground economy," calculated in part by applying national ratios of unreported to reported income, developed by Carl Simon and Ann Witte, to the official personal income estimate ($10.8 billion in 1981) published for Hawaii. For further details, see source and Data Book 1984, table 284]

Source	Amount
Total	1,160.3
Income hidden to avoid taxes	569.1
Legal wages and salaries	147.4
Legal self-employment earnings	316.8
Other hidden income	104.9
Income earned by avoiding cigarette, alcohol and sales taxes	2.3
Unreported income of illegal alien workers	6.7
Income from illegal transfers	56.0
Income from production and distribution of illegal goods	445.6
Drugs	440.2
Marijuana	361.6
Other drugs	78.4
Smuggling of goods other than drugs	1.2
Pornography	4.2
Income from illegal services	58.0
Takeout from illegal gambling	38.5
Loan sharking	1.1
Prostitution	18.4
Other illegal income (hijacking, forgery, protection and extortion, pirating of records and taxes)	22.6

Source: Linda Kephart, "Business booms 'off-the-books,'" Hawaii Business, March 1984, p. 69.

Table 420.-- MEDIAN INCOME OF HOUSEHOLDS, FAMILIES, UNRELATED INDIVIDUALS, AND PERSONS: 1949 TO 1986

[In dollars. Based on surveys made in March or April of following year]

Year	Households	Families	Unrelated individuals 1/	Persons with income 1/	
				Male	Female
1949	(NA)	3,568	1,583	2,340	1,247
1959	(NA)	6,366	1,998	3,753	1,796
1969	10,675	11,664	2,981	6,528	3,222
1975	15,991	17,770	6,180	9,489	4,082
1979	20,473	22,750	7,097	11,505	6,581
1980	21,666	24,813	8,506	13,533	6,917
1981	22,434	27,499	10,003	13,635	7,069
1982	23,582	27,840	11,068	13,582	8,133
1983	26,805	29,742	12,211	14,903	7,941
1984	28,877	32,831	12,303	16,147	8,548
1985	28,961	33,244	14,351	15,865	9,987
1986	29,003	34,665	14,906	18,637	11,447

NA Not available.

1/ 14 years old and over through 1975, and 15 years old and over thereafter. Data for 1975 and 1980-1986 exclude persons in military group quarters.

Source: U.S. Bureau of the Census, Census of Population: 1960, General Social and Economic Characteristics, Hawaii, Final Report PC(1)-13C (1962), tables 66 and 67 (for 1949 data); 1970 Census of Population, General and Economic Characteristics, Hawaii, PC(1)-C13 (December 1971), table 47 (for 1959 data); 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 61 (for 1969 and 1979 data); "Household Money Income in 1975, by Housing Tenure and Residence, for the United States, Regions, Divisions, and States (Spring 1976 Survey of Income and Education)," Current Population Reports, Consumer Income, Series P-60, No. 108 (November 1977), p. 145; "Money Income and Poverty Status in 1975 of Families and Persons in the United States and the West Region, by Divisions and States (Spring 1976 Survey of Income and Education)," Current Population Reports, Consumer Income, Series P-60, No. 113 (July 1978), pp. 175-177; Current Population Survey (March), annual, 1981 to 1987, machine-readable file, special tabulation by Hawaii State Data Center.

Table 421.-- INCOME OF HOUSEHOLDS, FAMILIES, AND PERSONS IN 1979: 1980

[Income received in 1979 by households, families, and persons surveyed in 1980]

Income	The State	Oahu	Other islands
Households	294,934	230,931	64,003
Less than $5,000	24,433	17,631	6,802
$5,000 to $7,499	18,775	13,771	5,004
$7,500 to $9,999	21,209	16,663	4,546
$10,000 to $14,999	41,604	32,320	9,284
$15,000 to $19,999	37,836	28,833	9,003
$20,000 to $24,999	34,842	26,768	8,074
$25,000 to $34,999	52,585	41,728	10,857
$35,000 to $49,999	39,955	33,443	6,512
$50,000 or more	23,695	19,774	3,921
Median	$20,473	$21,077	$18,457
Mean	$24,519	$25,180	$22,132
Families	227,974	178,516	49,458
Less than $5,000	11,533	8,603	2,930
$5,000 to $7,499	12,195	8,920	3,275
$7,500 to $9,999	15,068	11,817	3,251
$10,000 to $14,999	29,796	22,815	6,981
$15,000 to $19,999	28,957	21,572	7,385
$20,000 to $24,999	28,013	21,234	6,779
$25,000 to $34,999	45,089	35,482	9,607
$35,000 to $49,999	36,236	30,450	5,786
$50,000 or more	21,087	17,623	3,464
Median	$22,750	$23,554	$20,600
Mean	$26,629	$27,318	$24,139
Unrelated individuals 15 years and over	136,692	112,303	24,389
Less than $2,000	17,492	13,797	3,695
$2,000 to $2,999	7,698	5,713	1,985
$3,000 to $4,999	16,598	12,795	3,803
$5,000 to $7,999	34,234	29,848	4,386
$8,000 to $9,999	13,112	11,007	2,105
$10,000 to $14,999	21,340	17,209	4,131
$15,000 to $24,999	18,037	14,972	3,065
$25,000 to $49,999	6,841	5,866	975
$50,000 or more	1,340	1,096	244
Median	$7,097	$7,167	$6,735
Mean	$9,947	$10,061	$9,423

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 71.

Table 422.-- INCOME OF HOUSEHOLDS AND FAMILIES: ANNUAL AVERAGES, 1981 TO 1983 AND 1984 TO 1986

[Data refer to income before taxes, as reported in March survey in following year. Based on a pooled sample of 1,772 households for 1981-1983 and 1,530 households for 1984-1986]

Income	Households		Families	
	1981-1983	1984-1986	1981-1983	1984-1986
Total	321,417	339,558	241,554	257,481
Under $5,000	25,765	17,409	11,729	6,319
$5,000 to $7,499	15,193	15,834	9,131	8,108
$7,500 to $9,999	19,446	14,341	10,409	7,665
$10,000 to $14,999	39,960	30,908	28,659	20,464
$15,000 to $19,999	32,759	39,603	19,620	25,726
$20,000 to $24,999	30,434	29,889	22,944	23,906
$25,000 to $34,999	64,242	53,526	55,693	44,107
$35,000 to $49,999	57,267	62,575	51,510	53,894
$50,000 to $74,999	31,489	51,678	27,649	46,227
$75,000 and over	4,862	23,794	4,210	21,065
Median income (dollars)	24,540	28,948	28,307	33,274

Source: U.S. Bureau of the Census for U.S. Bureau of Labor Statistics, Current Population Survey (March), annual, 1982 to 1987; machine-readable data file, special tabulation by Hawaii State Data Center.

Table 423.-- INCOME AND POVERTY STATUS IN PREVIOUS YEAR: 1970 AND 1980

Subject	1970	1980	Percent 1970	Percent 1980
INCOME IN PREVIOUS YEAR				
Households	204,415	294,934	...	...
Median income (current dollars)	$10,675	$20,473	...	...
Median income (1979 dollars)	$21,137	$20,473	...	...
Families	170,729	227,974	...	...
Median income (current dollars)	$11,664	$22,750	...	...
Median income (1979 dollars)	$23,095	$22,750	...	...
Unrelated individuals 15 years and over	83,093	136,692	...	...
Median income (current dollars)	$2,981	$7,097	...	...
Median income (1979 dollars)	$5,902	$7,097	...	...
Male, 15 years and over 1/	289,165	378,942	100.0	100.0
Without income	29,578	29,106	10.2	7.7
With income	259,587	349,836	89.8	92.3
Median income (current dollars)	$6,528	$11,505	...	...
Median income (1979 dollars)	$12,925	$11,505	...	...
Female, 15 years and over 1/	264,590	360,707	100.0	100.0
Without income	94,729	78,115	35.8	21.7
With income	169,861	282,592	64.2	78.3
Median income (current dollars)	$3,222	$6,581	...	...
Median income (1979 dollars)	$6,380	$6,681	...	...
INCOME IN PREVIOUS YEAR BELOW POVERTY LEVEL 2/				
Persons	68,364	91,618	9.3	9.9
65 years and over	8,457	7,654	19.9	10.5
In families	51,530	66,843	7.6	8.2
Householder	13,063	17,700	7.7	7.8
Female householder, no husband present	5,180	7,985	32.4	28.0
Related child under 18 years	27,895	35,103	10.3	13.0
Related child under 6 years	10,129	14,725	11.9	16.3
Other relatives	10,572	14,040	4.5	4.4
Unrelated individuals	16,834	24,775	30.3	23.0
65 years and over	4,561	4,927	50.1	31.7

1/ 14 years and over in 1970.

2/ Percent columns show percent below poverty level for specified groups. Data are based on U.S. poverty thresholds. Thresholds in Hawaii are about 15 percent higher; these statistics accordingly understate the number of persons in Hawaii below the poverty level.

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-13C (July 1983), table 61.

Table 424.-- INCOME AND POVERTY STATUS IN 1979, BY COUNTIES AND ISLANDS: 1980

[Income and poverty status in 1979 of households, families and persons surveyed in 1980]

County and island	Median income in 1979 (dollars)		Per capita income in 1979 (dollars)	Income in 1979 below poverty level 1/	
	House-holds	Families		Percent of persons for whom poverty status is determined	Percent of families
The State ..	20,473	22,750	7,740	9.9	7.8
Counties:					
Hawaii	16,975	19,132	6,554	13.2	10.3
Maui	20,237	22,579	7,818	9.6	7.6
Kalawao	5,750	11,667	6,838	31.9	13.3
Honolulu	21,077	23,554	7,912	9.5	7.5
Kauai	19,066	20,882	7,022	8.9	6.9
Islands:					
Hawaii	16,975	19,132	6,554	13.2	10.3
Maui	20,732	24,136	8,115	8.8	7.2
Lanai	18,597	21,667	6,472	10.6	2.3
Molokai	14,530	16,440	5,206	21.6	12.8
Oahu 2/	21,077	23,554	7,912	9.5	7.5
Kauai	19,154	20,989	7,057	8.3	6.4
Niihau	4,922	4,922	1,081	81.2	84.2

1/ Based on Mainland poverty thresholds. Hawaii thresholds are approximately 15 percent higher than those in effect on the Mainland; these data accordingly understate the percent of persons and families below poverty level in Hawaii.

2/ Includes the Northwestern Hawaiian Islands.

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 57, and 1980 Census of Population and Housing, Census Tracts, Hawaii, Selected Areas, PHC80-2-13 (June 1983), table P-11. Island data for Maui, Molokai, and Kauai calculated by Hawaii State Data Center.

Table 425.-- POVERTY STATUS IN 1979 OF FAMILIES AND PERSONS: 1980

[Based on nationwide poverty thresholds. Hawaii thresholds are approximately 15 percent higher than those in effect on the Mainland; these data accordingly understate the numbers of persons and families below the poverty level in Hawaii. Data refer to the poverty status in 1979 of families and persons surveyed in 1980]

Subject	Number
ALL INCOME LEVELS IN 1979	
Families	227,974
Unrelated individuals	107,787
Persons	927,032
INCOME IN 1979 BELOW POVERTY LEVEL	
Families	17,700
Percent below poverty level	7.8
Unrelated individuals	24,775
Percent below poverty level	23.0
Persons	91,618
Percent below poverty level	9.9
INCOME IN 1979 BELOW 125 PERCENT OF POVERTY LEVEL	
Families	26,815
Percent below poverty level	11.8
Unrelated individuals	30,725
Percent below poverty level	28.5
Persons	133,214
Percent below poverty level	14.4
INCOME IN 1979 BELOW SPECIFIED POVERTY LEVEL	
Percent of persons:	
Below 75 percent of poverty level	6.1
Below 150 percent of poverty level	19.0
Below 200 percent of poverty level	29.0

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 72.

Table 426.-- POVERTY STATUS OF FAMILIES AND UNRELATED INDIVIDUALS: 1969 TO 1986

[Based on censuses or surveys made in March or April of following year]

Year	Families			Unrelated individuals 2/		
	Total	Below poverty level 1/		Total	Below poverty level 1/	
		Number	Percent		Number	Percent
1969 ..	170,729	13,046	7.6	55,588	16,833	30.3
1975 ..	201,000	13,000	6.4	66,000	14,000	21.6
1979 ..	227,974	17,700	7.8	107,787	24,775	23.0
1985 ..	253,914	18,776	7.4	117,639	27,243	23.2
1986 ..	264,689	23,419	8.8	122,419	31,828	26.0

1/ Based on Mainland poverty thresholds. Hawaii thresholds are approximately 15 percent higher than those in effect on the Mainland; these data accordingly understate the number and percent of families and unrelated individuals below poverty level in Hawaii.

2/ 14 years old and over through 1975, and 15 years old and over thereafter. Data for 1975, 1985, and 1986 exclude persons in military group quarters.

Source: U.S. Bureau of the Census, 1970 Census of Population, General Social and Economic Characteristics, Hawaii, PC(1)-C13 (December 1971), table 58; "Money Income and Poverty Status in 1975 of Families and Persons in the United States and West Region, by Divisions and States (Spring 1976 Survey of Income and Education)," Current Population Reports, Consumer Income, Series P-60, No. 113 (July 1978), pp. 179-180; 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 72; Current Population Survey (March), 1986 and 1987, machine-readable file, special tabulation by Hawaii State Data Center.

Table 427.-- POVERTY INCOME GUIDELINES: 1980, 1986 AND 1987

[In dollars. These family income levels are poverty thresholds established by the U.S. Department of Health and Human Services to determine eligibility for certain Federal programs for the poor. In earlier years, these guidelines were issued by the Community Services Administration]

Size of family unit	Effective April 21, 1980 1/	Effective Feb. 11, 1986 2/	Effective Feb. 20, 1987 2/
1	4,370	6,170	6,310
2	5,770	8,330	8,500
3	7,170	10,490	10,690
4	8,570	12,650	3/ 12,880
5	9,970	14,810	15,070
6	11,370	16,970	17,260
7	12,770	19,130	19,450
8	14,170	21,290	4/ 21,640

1/ Nonfarm families only; guidelines for farm families were lower.

2/ All families.

3/ Corresponding levels for four-person families elsewhere in the United States were $11,200 on the Mainland and $14,000 in Alaska.

4/ For larger families, add $2,190 for each additional member.

Source: Community Services Administration, "General Characteristics of Community Action Programs; Income Poverty Guidelines (Revised)," Federal Register, Vol. 45, No. 78 (April 21, 1980), pp. 26712-26713; U.S. Department of Health and Human Services, "Poverty Income Guidelines; Annual Revision," Federal Register, Vol. 51, No. 28 (February 11, 1986), pp. 5105-5106, and "Annual Update of the Poverty Income Guidelines," Federal Register, Vol. 52, No. 34 (February 20, 1987), pp. 5340-5341.

Table 428.-- ANNUAL INCOME AND EXPENDITURES OF URBAN CONSUMER UNITS, FOR OAHU: 1980-81 AND 1982-83

[Data based on 792 sample interviews in 1980-81 and 928 in 1982-83. For detailed breakdowns, see source]

Item	Annual averages (dollars)	
	1980-81	1982-83
Total expenditures	18,584	22,247
Food at home	2,681	2,838
Food away from home	887	1,265
Alcoholic beverages	302	460
Housing	5,454	6,122
Shelter	3,523	3,948
Utilities, fuels, and public services	937	1,142
Household operations	369	280
Housefurnishings and equipment	626	751
Apparel	773	1,080
Transportation	3,729	4,051
Health care	731	770
Entertainment	804	1,101
Personal care	153	232
Reading	119	159
Education	265	380
Tobacco and smoking supplies	143	177
Miscellaneous	258	482
Cash contributions	504	923
Personal insurance and pensions	1,779	2,204
Money income before taxes	22,926	27,937
Personal taxes	2,915	3,595
Other money receipts	123	227
Mortgage principal paid on owned property	440	635
Gifts of goods and services	498	690

Source: U.S. Bureau of Labor Statistics, Consumer Expenditure Survey: Interview, 1984, Bulletin 2267 (August 1986), pp. 67-70 and 83-86.

Table 429.-- TOP WEALTHHOLDERS: 1962 TO 1982

[Top wealthholders are defined as persons with a gross estate in excess of specified amounts, rising from $60,000 in 1962 to $300,000 in 1982. All figures are estimates based on estate tax return samples]

Group and year	Number of top wealthholders	Millions of dollars		
		Total assets	Debts and mortgages	Net worth
Gross estate over $60,000:				
1962	11,323	1,908	231	1,677
1969	36,470	6,327	1,090	5,236
1972	53,700	7,866	1,369	6,497
Gross estate over $120,000:				
1976	39,000	7,436	1,546	5,890
Gross estate over $300,000:				
1982	14,200	8,815	4,471	4,344
Gross estate over $500,000:				
1982	5,700	5,891	4,005	1,887

Source: U.S. Internal Revenue Service, Statistics of Income - 1962, Personal Wealth (1967), pp. 55-56; Statistics of Income - 1969, Personal Wealth (1973), pp. 57-58; Statistics of Income - 1972, Personal Wealth Estimated from Estate Tax Returns (1976), table 33; and Statistics of Income Bulletin, Summer 1983, pp. 1-26, and Winter 1984-85, pp. 1-17.

Table 430.-- CHARACTERISTICS OF TOP WEALTHHOLDERS: 1982

[Top wealthholders are defined as persons with gross assets of $300,000 or more. All figures in this table are estimates based on estate tax return samples]

Subject	Number of persons	Amount (millions of dollars)
GROSS ASSETS OF $300,000 OR MORE		
Total assets, all persons in group	14,200	8,815
Debts and mortages	13,100	4,471
Net worth	14,200	4,344
Men	11,200	2,421
Women	2,900	1,923
GROSS ASSETS OF $500,000 OR MORE		
Total assets, all persons in group	5,700	5,891
Debts and mortgages	5,500	4,005
Net worth	5,700	1,887
Selected assets:		
Cash	5,700	313
Corporate stock	2,800	328
Bonds	1,100	138
Real estate	5,200	3,363
Noncorporate business assets	1,700	278
NET WORTH OF $1,000,000 OR MORE		
Net worth, all persons in group (millionaires)	800	1,663

Source: U.S. Internal Revenue Service, "Preliminary Estimates of Personal Wealth, 1982: Composition of Assets," SOI Bulletin, Winter 1984-85, pp. 1-17.

Table 431.-- WORTH OF RICHEST RESIDENTS: 1986 AND 1987

Name	Age (years)	Worth (million dollars)
1986		
Barbara Cox Anthony	63	1,100
Harry Weinberg 1/	78	725
Campbell family	...	400
Kelley family	...	330
Richard Palmer Kaleioku Smart	73	225
Alfred Dreyfus Goldman 2/	48	200
Monte Henry Goldman 2/	51	200
1987		
Barbara Cox Anthony	64	1,800
Harry Weinberg 1/	79	800
Campbell family	...	600
Goldman family 3/	...	400
Kelley family	...	350
Richard Palmer Kaleioku Smart	74	275

1/ Also maintains residence in Baltimore.
2/ Also maintains residence in Oklahoma City.
3/ Also residents of Colorado.
Source: "The 400 Richest People in America," Forbes, October 27, 1986, pp. 106-312; "The 400 Richest People in America," Forbes, October 26, 1987, pp. 106-333.

Section 14

PRICES

This section presents indexes of consumer prices for Honolulu, average prices for selected foods, and comparisons of Honolulu living costs with those in other metropolitan areas. Other statistics on prices are reported in Sections 7, 16, 17, 18, 21, and 23.

During the first six months of 1987, the Honolulu all-items consumer price index for all urban consumers averaged 311.9, with the 1967 level equal to 100. The index had increased 4.1 percent over the first half of 1986, 16.6 percent since 1982, and 82.4 percent since 1977. Prices have risen most rapidly since 1967 for medical care (347.6 percent) and least rapidly for apparel commodities (97.2 percent).

An "intermediate" budget for a four-person family living on Oahu was estimated at $31,893 as of the Autumn of 1981. This family budget was 26 percent higher than the corresponding urban United States average, and was first among the 25 American metropolitan areas surveyed. The "lower" budget was 33 percent above the national figure; the "higher" budget, 32 percent. Oahu-Mainland differentials in the intermediate budget were greatest for rents and personal income taxes and least for food away from home and automobile transportation. An unofficial 1987 survey of 100 U.S. cities ranked Honolulu sixth in overall living costs, 14.5 percent above the median area.

The Honolulu consumer price index has been compiled by the United States Bureau of Labor Statistics since December 1963. This index measures the average change in prices of goods and services purchased by urban families and single persons living alone. Prices are expressed as a percent of the average levels reported in 1967, the base date. Current data for Honolulu and other cities are published in CPI Detailed Report, issued monthly by BLS.

Technical changes made in the consumer price index during the past decade have affected its coverage, treatment of specific expenditure categories, weights, base period, and frequency of publication. In 1978, the Bureau of Labor Statistics began calculation of a new index, the CPI-U, covering all urban consumers, in addition to the older index, the CPI-W, which was limited to urban wage earners and clerical workers and their families. In 1983, the basis for measuring homeowners' costs was substantially modified. In 1987, component weights based on a 1982-1984 survey replaced the older weights derived from 1972-1973 data. At the same time, the publication of the Honolulu indexes was moved from a bimonthly to a semi-annual basis. Beginning in 1988, the base period will be 1982-1984 instead of 1967.

Official comparisons of Honolulu and Mainland living costs are no longer being made. The annual four-person family budgets estimated by the Bureau of Labor Statistics for Honolulu and 39 (later 24) Mainland areas were discontinued after 1981. The annual comparison of prices in Hawaii and Washington, D.C., compiled by the U.S. Office of Personnel Management to provide a basis for cost of living adjustments for Federal employees, has not been published since 1983. The only current information on intercity differences is that provided by a private consultant firm, Runzheimer International. Annual surveys of food prices in Honolulu and other cities are regularly made by the Tampa Tribune.

No composite wholesale or producer price index, comparable to the all-items consumer price index, is available for Hawaii. Average wholesale prices of agricultural products are reported in Statistics of Hawaiian Agriculture, issued by the Hawaii Agricultural Statistics Service, and in various other publications of the State Department of Agriculture. Wholesale price statistics of other commodities are usually unavailable.

Data on prices and living costs for the nation as a whole and other areas are summarized in Statistical Abstract of the United States: 1987, Section 15. Long-term trends for Hawaii are traced in Historical Statistics of Hawaii, Section 5.

Table 432.-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY TYPE OF CONSUMER, FOR HONOLULU: SEMI-ANNUALLY, 1984 TO 1987

[1967 average = 100]

Year	All urban consumers (CPI-U)			Urban wage earners and clerical workers (CPI-W)		
	Annual average	First half	Second half	Annual average	First half	Second half
1984 ...	284.8	282.3	287.3	291.3	287.8	294.7
1985 ...	294.1	292.6	295.7	301.4	300.0	302.8
1986 ...	301.1	299.7	302.5	308.2	306.9	309.4
1987 ...	...	311.9	...	...	319.2	...

Source: U.S. Bureau of Labor Statistics, printouts and press releases.

Table 433.-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY TYPE OF CONSUMER, FOR HONOLULU: 1963 TO 1986

[1967 average = 100]

Type of consumer and year	Annual average	February	April	June	August	October	December
All urban consumers: 1/							
1978	184.1	178.0	181.4	183.9	185.6	188.8	191.3
1979	204.6	196.2	200.7	204.4	207.2	210.5	214.8
1980	228.5	220.9	227.4	227.5	230.1	234.6	236.1
1981	252.4	243.3	250.0	252.8	256.6	259.3	258.3
1982	267.6	262.0	263.3	269.0	269.4	275.2	269.9
1983	273.5	270.4	272.8	271.4	273.5	276.4	278.4
1984	284.8	280.7	283.2	284.7	286.0	287.4	289.8
1985	294.1	292.6	292.7	293.5	294.2	295.6	298.5
1986	301.1	301.2	299.0	299.2	301.5	302.2	305.4
Urban wage earners and clerical workers:							
1963	...		...	...		...	92.8
1964	92.9		2/ 93.2	92.4		3/ 92.9	93.7
1965	94.6		2/ 94.2	94.1		3/ 94.7	96.2
1966	97.3		2/ 96.6	96.8		3/ 97.9	98.8
1967	100.0		2/ 98.9	99.7		3/ 100.6	101.8
1968	103.8		2/ 102.8	103.4		3/ 104.6	105.7
1969	108.5		2/ 107.2	108.2		3/ 109.6	111.0
1970	114.2		2/ 113.2	114.4		3/ 114.9	115.7
1971	118.9		2/ 116.7	118.5		3/ 121.2	121.1
1972	122.8		2/ 122.4	122.2		3/ 123.1	124.4
1973	128.3		2/ 126.0	127.5		3/ 129.6	132.8
1974	141.9		2/ 137.7	141.2		3/ 145.5	148.5
1975	155.0		2/ 151.9	154.3		3/ 157.6	159.8
1976	162.8		2/ 161.1	162.3		3/ 164.0	165.5
1977	171.0		2/ 168.3	170.5		3/ 173.4	174.9
1978	184.1	177.5	181.3	184.1	186.0	188.7	191.2
1979	204.5	196.0	200.0	203.6	207.2	211.1	215.5
1980	228.7	221.3	228.4	228.0	229.5	233.5	237.0
1981	252.8	243.5	250.2	253.8	256.6	259.1	259.3
1982	268.1	263.0	264.2	268.9	269.5	274.7	271.0
1983	278.8	274.8	276.9	273.4	278.2	285.9	288.2
1984	291.3	284.3	289.0	290.9	293.6	294.5	297.6
1985	301.4	300.3	300.1	300.4	301.3	302.7	305.8
1986	308.2	308.5	306.7	306.5	308.3	308.8	312.7

1/ Not available before 1978.

2/ March index.

3/ September index.

Source: U.S. Bureau of Labor Statistics, San Francisco, Consumer Price Index - Pacific Cities and U.S. Average (monthly), as corrected.

Table 434.-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS, BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1982 TO 1986

[Unless otherwise specified, 1967=100]

Group	1982	1983	1984	1985	1986
All items	267.6	273.5	284.8	294.1	301.1
Food and beverages	288.3	296.0	308.2	320.6	327.2
Food	298.8	306.7	319.7	332.2	339.0
Food at home	300.2	305.2	318.6	328.6	335.8
Cereals and bakery products	278.9	289.3	300.8	316.9	326.6
Meats, poultry, fish, and eggs	283.4	286.6	292.2	294.8	299.8
Meats, poultry, and fish	288.2	291.8	295.8	299.5	304.5
Dairy products	285.5	287.6	291.6	298.5	302.8
Fruits and vegetables	329.3	324.9	359.3	377.9	379.4
Other foods at home	344.5	358.4	376.6	392.0	407.4
Food away from home	299.7	314.1	327.9	340.9	349.6
Alcoholic beverages	200.0	206.0	210.5	222.7	228.3
Housing	255.0	257.5	268.2	275.8	282.2
Shelter	253.7	257.2	271.2	282.9	296.8
Renters' costs 1/	(NA)	102.7	109.4	115.0	121.1
Rent, residential	240.7	253.0	269.0	281.9	297.3
Other renters' costs	338.5	382.9	414.4	446.5	463.7
Homeowners' costs 1/	(NA)	100.6	105.9	110.4	115.7
Owners' equivalent rent 1/	(NA)	100.6	105.8	110.4	115.8
Fuel and other utilities	352.3	339.9	347.0	337.9	303.4
Fuels	500.4	446.0	457.3	435.4	352.0
Gas (piped) and electricity	500.4	445.3	456.5	434.3	350.0
Electricity	(NA)	(NA)	452.4	428.2	340.3
Utility (piped) gas	(NA)	(NA)	451.4	448.2	400.9
Household furnishings and operation	210.4	216.7	219.0	221.9	225.6
Apparel and upkeep	201.5	207.7	205.1	203.9	204.4
Apparel commodities	195.5	200.9	197.1	195.1	194.8
Men's and boys' apparel	197.2	201.1	202.2	208.5	213.8
Women's and girls' apparel	183.7	186.9	185.8	190.6	189.2
Footwear	187.4	190.9	194.5	197.0	192.5
Transportation	255.6	253.7	265.7	270.9	271.7
Private transportation	260.1	258.7	272.3	277.6	277.9
Motor fuel 2/	(NA)	(NA)	194.9	196.8	173.0
Gasoline 2/	(NA)	(NA)	195.5	197.3	173.3
Public transportation	236.7	231.9	234.2	238.6	243.1
Medical care	324.3	357.6	379.7	400.6	432.8
Entertainment	246.7	257.6	268.9	288.4	291.8
Other goods and services	275.6	303.7	319.1	336.8	358.1
Personal care	276.4	284.9	283.5	292.2	302.2

Continued on next page.

Table 434.-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS, BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1982 TO 1986 -- Con.

Group	1982	1983	1984	1985	1986
All items	267.6	273.5	284.8	294.1	301.1
Commodities	257.0	263.8	272.2	279.3	280.7
Food and beverages	288.3	296.0	308.2	320.6	327.2
Commodities less food and beverages	231.8	237.8	243.6	247.3	245.2
Nondurables less food and beverages	263.0	270.8	275.1	281.2	276.3
Durables	200.7	205.7	213.7	214.3	216.0
Services	284.9	289.5	304.2	316.0	329.0
Medical care services	338.7	375.1	398.2	418.8	452.7
Special indexes:					
All items less shelter	269.4	276.4	286.5	294.8	298.8
All items less medical care	263.9	268.5	279.2	288.0	293.7
All items less energy 3/	148.7	153.2	159.9	166.0	172.5
Energy 2/	207.8	192.3	196.5	193.1	163.7
Commodities less food	229.6	235.6	241.3	245.4	243.7
Nondurables less food	255.3	262.9	267.2	273.7	269.7
Nondurables	278.9	286.7	295.3	304.8	306.0
Services less rent of shelter 1/	(NA)	101.3	105.8	109.2	112.6
Services less medical care	274.6	276.3	290.0	300.8	311.8

NA Not available.
1/ December 1982=100.
2/ June 1978=100.
3/ December 1977=100.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report, January issues, 1983 to 1987.

Table 435.-- CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS, BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1982 TO 1986

[Unless otherwise specified, 1967=100]

Group	1982	1983	1984	1985	1986
All items	268.1	278.8	291.3	301.4	308.2
Food and beverages	292.4	300.3	313.2	326.9	334.6
Food	303.7	311.8	325.5	339.5	347.6
Food at home	306.6	312.4	326.6	338.5	346.9
Cereals and bakery products	273.7	281.7	292.5	307.4	315.7
Meats, poultry, fish, and eggs	298.5	302.7	311.6	320.1	327.5
Meats, poultry, and fish	304.4	309.1	316.7	326.5	334.2
Dairy products	285.6	287.8	291.6	298.3	302.5
Fruits and vegetables	330.2	327.5	360.8	377.3	381.2
Other foods at home	352.1	366.5	385.3	401.3	416.9
Food away from home	298.9	313.5	327.9	341.0	350.3
Alcoholic beverages	195.3	201.7	206.4	218.2	223.8
Housing	251.9	265.8	278.5	288.2	294.6
Shelter	246.8	266.1	282.9	297.8	312.3
Renters' costs 1/	(NA)	(NA)	(NA)	102.8	108.2
Rent, residential	240.7	253.0	269.0	281.9	297.3
Other renters' costs	343.5	391.4	425.4	459.8	475.0
Homeowners' costs 1/	(NA)	(NA)	(NA)	103.3	108.4
Owners' equivalent rent 1/	(NA)	(NA)	(NA)	103.3	108.4
Fuel and other utilities	352.2	340.1	347.0	337.9	303.4
Fuels	499.0	445.5	456.4	434.8	351.8
Gas (piped) and electricity	498.8	444.9	455.7	433.9	350.4
Electricity	(NA)	(NA)	452.4	428.1	340.3
Utility (piped) gas	(NA)	(NA)	451.5	448.3	401.1
Household furnishings and operation	219.6	226.8	228.1	232.5	237.4
Apparel and upkeep	208.1	214.6	212.3	210.5	211.9
Apparel commodities	201.9	207.5	203.9	201.2	201.8
Men's and boys' apparel	198.0	201.4	203.1	210.7	216.1
Women's and girls' apparel	159.4	162.1	162.0	165.9	166.1
Footwear	172.8	175.8	179.0	181.1	177.3
Transportation	255.8	253.3	265.3	270.2	270.2
Private transportation	261.7	259.4	272.8	277.8	277.2
Motor fuel 2/	(NA)	(NA)	194.0	195.9	172.2
Gasoline 2/	(NA)	(NA)	194.6	196.4	172.5
Public transportation	237.5	232.7	234.9	239.3	243.6
Medical care	332.5	365.2	386.3	406.7	437.6
Entertainment	257.7	270.0	282.5	302.3	305.5
Other goods and services	269.7	299.4	313.8	331.0	350.5
Personal care	261.3	269.5	268.5	277.0	286.3

Continued on next page.

Table 435.-- CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS, BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1982 TO 1986 -- Con.

Group	1982	1983	1984	1985	1986
All items	268.1	278.8	291.3	301.4	308.2
Commodities	259.5	267.0	276.4	284.7	286.4
Food and beverages	292.4	300.3	313.2	326.9	334.6
Commodities less food and beverages	233.3	240.3	247.6	253.4	251.1
Nondurables less food and beverages	269.8	277.3	282.3	288.4	282.6
Durables	197.9	204.3	212.8	217.7	220.1
Services	283.0	299.0	316.3	328.8	342.1
Medical care services	350.0	385.9	407.8	428.0	460.3
Special indexes:					
All items less shelter	273.7	280.5	290.8	299.4	303.5
All items less medical care	264.0	273.8	285.8	295.4	301.0
All items less energy 3/	148.5	156.0	163.4	170.0	176.7
Energy 2/	205.5	191.1	195.0	192.3	163.7
Commodities less food	230.8	237.8	245.0	251.1	249.1
Nondurables less food	260.9	268.3	273.2	279.7	275.0
Nondurables	284.1	291.9	301.2	311.5	313.1
Services less rent of shelter 1/	(NA)	(NA)	(NA)	101.0	104.1
Services less medical care	271.5	285.3	301.8	313.4	324.7

NA Not available.
1/ December 1984=100.
2/ June 1978=100.
3/ December 1977=100.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report, January issues, 1983 to 1987.

Table 436.-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER PRICE INDEX FOR HONOLULU: DECEMBER 1986

[Percent of all items]

Group	CPI-U 1/	CPI-W 2/
EXPENDITURE CATEGORY		
All items	100.000	100.000
Food and beverages	21.261	22.576
Food	19.775	20.817
Food at home	12.579	12.804
Cereals and bakery products	1.605	1.841
Meats, poultry, fish, and eggs	4.089	4.424
Meats, poultry, and fish	3.822	4.086
Dairy products	1.091	1.030
Fruits and vegetables	2.788	2.681
Other foods at home	3.005	2.827
Food away from home	7.196	8.014
Alcoholic beverages	1.486	1.759
Housing	41.140	38.542
Shelter	30.070	27.814
Renters' costs	9.066	9.195
Rent, residential	7.830	8.343
Other renters' costs	1.236	.852
Homeowners' costs	20.777	18.413
Owners' equivalent rent	20.510	18.224
Fuel and other utilities	4.609	4.919
Fuels	2.130	2.257
Fuel oil, coal, and bottled gas	.020	.024
Fuel oil	.001	.004
Other fuels	.019	.021
Gas (piped) and electricity	2.110	2.232
Electricity	1.914	1.949
Utility (piped) gas	.196	.283
Household furnishings and operations	6.462	5.809
Apparel and upkeep	5.817	6.117
Apparel commodities	5.485	5.762
Men's and boys'	1.459	1.603
Women's and girls'	2.439	2.522
Footwear	.802	.888

Continued on next page.

Table 436.-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER PRICE INDEX FOR HONOLULU: DECEMBER 1986 -- Con.

Group	CPI-U 1/	CPI-W 2/
EXPENDITURE CATEGORY -- Con.		
Transportation	16.379	18.400
Private	14.327	16.821
Motor fuel	2.779	3.390
Public	2.052	1.579
Medical care	4.819	4.226
Entertainment	4.628	4.468
Other goods and services	5.956	5.671
Personal care	1.280	1.404
COMMODITY AND SERVICE GROUP		
All items	100.000	100.000
Commodities	44.746	48.519
Food and beverages	21.261	22.576
Commodities less food and beverages	23.485	25.942
Nondurables less food and beverages	14.470	15.721
Durables	9.015	10.221
Services	55.254	51.481
Medical care services	3.872	3.239
Special indexes:		
All items less shelter	69.930	72.186
All items less medical care	95.181	95.774
All items less energy	95.091	94.353
Energy	4.909	5.647
Commodities less food	24.971	27.701
Nondurables less food	15.956	17.480
Nondurables	35.731	38.297
Services less rent of shelter	25.695	24.081
Services less medical care	51.382	48.242

1/ Consumer price index for all urban consumers.

2/ Consumer price index for urban wage earners and clerical workers.

Source: U.S. Bureau of Labor Statistics, printout.

Table 437.-- RETAIL FOOD PRICES, BY ITEM, FOR HONOLULU AND U.S. CITIES: JUNE 19, 1986 AND JUNE 4, 1987

[See headnote to following table]

Item	Honolulu price (dollars)		Honolulu as percent of U.S. average	
	1986	1987	1986	1987
Milk, homogenized, 1/2 gal.	1.39*	3.35	116	160
Eggs, Grade A, large, 1 doz.	1.19	1.29*	165	179
Cheese, sharp, 10 oz.	2.69	2.50*	121	111
Margarine, 1 lb.	0.59	0.59	97	107
Bread, white, 24 oz. loaf	1.35	1.67	193	235
Flour, 5 lbs.	1.09*	1.29*	102	116
Cereal, Special K, 12 oz.	2.79	3.05	137	139
Sugar, 5 lbs.	1.85	1.59*	116	99
Instant coffee, 8 oz. jar	6.63	4.59	129	124
Beans, dry, 1 lb.	0.99	0.97	174	173
Rice, 2 lbs.	2.03	2.39	107	120
Mayonnaise, 1 qt.	1.69*	2.05	97	127
Peanut butter, 18 oz. jar	1.99*	2.19	114	102
Tuna, 6 1/2 oz. can	0.65*	0.69*	97	103
Evaporated milk, 13 fluid oz.	0.55	(NA)	98	(NA)
Cling peach halves, 29 oz. can	1.49	1.59	137	134
Pineapple, 20 oz. can	0.95	1.03	104	116
Ice cream, 1/2 gal.	2.19*	2.00	143	123
Applesauce, 25 oz. jar	(NA)	1.51	(NA)	148
Tomato soup, 10 3/4 oz. can	(NA)	0.50*	(NA)	143
Orange juice concentrate, 1/	0.65	1.19*	123	137
Broccoli spears, 10 oz. pkg.	0.99	1.19	146	178
Roast, boneless, 1 lb. 2/	2.39	2.89	115	116
Sirloin steak, 1 lb. 3/	2.89	5.98	109	169
Ground beef, 1 lb.	1.69	1.69	146	129
Pork loin chops, 1 lb.	3.09	2.99	130	105
Ham, boneless, 1 lb.	1.69	1.15*	135	36
Bacon, regular slice, 1 lb.	1.99*	2.29*	94	105
Wieners, skinless, all meat, 1 lb. ..	1.49*	2.19*	84	127
Chicken, whole, Grade A, 1 lb.	0.79	0.75	118	110
Potatoes, 5 lbs.	1.89	1.80	167	113
Yellow summer squash, 1 lb.	(NA)	1.39	(NA)	193
Carrots, 1 lb.	0.49	0.49	120	126
Cabbage, 1 lb.	0.29	0.33*	104	110
Lettuce, 1 head	0.69	0.86	115	141
Bananas, 1 lb.	0.69	0.59*	177	144
Tomatoes, 1 lb.	0.69	0.69*	103	86
Oranges, 5 lbs.	2.85	(NA)	131	(NA)
Tax on above items	2.29	2.53	-	-

Footnotes and source on next page.

Table 437.-- RETAIL FOOD PRICES, BY ITEM, FOR HONOLULU AND U.S. CITIES: JUNE 19, 1986 AND JUNE 4, 1987 -- Con.

* Special sale price.

1/ 6 oz. can in 1986; 12 oz. can in 1987.

2/ Rump roast in 1986; sirloin tip roast in 1987.

3/ Bone in 1986; boneless in 1987.

Source: Honolulu Advertiser, July 29, 1986, p. B-1; Sunday Star-Bulletin and Advertiser, June 28, 1987, p. A-13, as corrected. Percentages calculated by DPED.

Table 438.-- RETAIL FOOD PRICES, FOR HONOLULU AND MAINLAND CITIES: 1979 TO 1987

[June data for a "market basket" of 35 or more common food items surveyed in Honolulu and other U.S. cities. Data include sales taxes. This survey, organized by the Tampa Tribune, has included Honolulu since 1979]

Date of survey	Honolulu			All cities	
	Amount (dollars)	Rank	Percent of U.S. average 1/	Number surveyed	Average amount 1/ (dollars)
1979: June 14	46.91	2	120.3	22	38.98
1980: June 19	49.60	2	121.0	22	40.98
1981: June 11	57.18	1	131.1	21	43.63
1982: June 3	56.72	1	126.2	21	44.93
1983: June 2	56.33	1	128.0	21	44.01
1984: May 31	59.10	1	127.0	21	46.52
1985: June 20	61.45	1	131.4	21	46.77
1986: June 19	59.64	1	125.3	21	47.58
1987: June 4	65.83	1	126.6	17	51.98

1/ Average prior to 1985 excluded Honolulu and Anchorage, both included in number surveyed.

Source: Honolulu Advertiser, July 4, 1979, pp. A-1 and A-6; July 9, 1980, pp. A-1 and A-4; July 3, 1981, pp. A-1 and A-3; June 23, 1982, p. B-1; June 24, 1983, p. D-1; June 19, 1984, p. D-1; July 22, 1985, p. D-1; July 29, 1986, p. B-1; June 25, 1987, p. A-1, as corrected.

Table 439.-- RETAIL FOOD PRICE INDEXES, FOR KAUAI: 1985 AND 1987

[Totals for a "market basket" of common food items priced in Kauai, Honolulu and 20 Mainland cities, comparable to survey reported in table 437]

Date	Kauai index	
	Honolulu = 100	Mainland = 100
June 1985	111	145
June 1987	119	147

Source: Data from Kauai Office of Economic Development, reported in Honolulu Advertiser, August 21, 1985, p. A-7, and Sunday Star-Bulletin and Advertiser, August 30, 1987, p. B-4.

Table 440.-- COMPARATIVE ANNUAL LIVING COSTS IN HONOLULU AND OTHER URBAN AREAS: 1987

[For a four-person family with a standard of living requiring an income of $50,000 in the median urban area among the 100 areas studied. Shown separately for the six costliest areas]

Rank	Urban area	Cost (dollars)	Index
1	New York City	62,940	125.9
2	San Jose	59,924	119.8
3	Santa Barbara	58,195	116.4
4	Boston	57,383	114.8
5	San Francisco	57,324	114.6
6	Honolulu	57,257	114.5
...	"Standard City, U.S.A."	50,000	100.0

Source: Study by Runzheimer International, Rochester, Wis, cited in Pacific Business News, June 29, 1987, p. 19.

Table 441.-- ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A FOUR-PERSON FAMILY ON OAHU: AUTUMN 1981

Item	Cost of budget (dollars)			Percent of urban U.S. average		
	Lower budget	Intermediate budget	Higher budget	Lower budget	Intermediate budget	Higher budget
Total budget 1/	20,319	31,893	50,317	133	126	132
Total consumption	15,240	21,530	29,952	126	118	120
Food	6,108	7,626	9,708	134	131	132
At home	5,501	6,649	7,972	141	137	138
Away from home	607	977	1,736	93	100	110
Housing 2/	4,022	6,493	10,200	143	117	121
Shelter 2/	3,171	5,098	7,355	150	117	126
Renter costs 2/	3,171	3,991	5,836	150	146	136
Homeowner costs 2/	...	5,467	7,623	...	112	124
Housefurnishings and operations	851	1,395	2,499	121	116	110
Transportation 2/	1,288	2,421	3,220	98	102	105
Automobile owners	1,827	2,421	3,220	105	97	105
Clothing	1,042	1,432	2,010	111	107	103
Personal care	448	590	834	118	116	116
Medical care 2/	1,583	1,590	1,657	110	110	110
Other family consumption 2/	749	1,378	2,323	116	115	118
Other items 2/	716	1,137	1,966	115	111	114
Social security and disability payments	1,424	2,049	2,049	137	120	103
Personal income taxes	2,939	7,177	16,350	184	162	175

1/ Among the 25 metropolitan areas for which separate indexes were reported, Honolulu ranked first in total budget costs at the higher and intermediate levels and second at the lower level (where Anchorage ranked first). For 1972-1980 estimates, see Data Book 1984, table 406.

2/ For details, see either the Data Book 1984, table 407, footnotes, or the original source.

Source: U.S. Bureau of Labor Statistics, Autumn 1981 Urban Family Budgets and Comparative Indexes for Selected Urban Areas (release USDL: 82-139, April 16, 1982).

Table 442.-- ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A RETIRED COUPLE ON OAHU: AUTUMN 1981

[For a retired husband, age 65 years or over and wife. Excludes personal income taxes]

Item	Cost of budget (dollars)			Percent of U.S urban average		
	Lower budget	Intermediate budget	Higher budget	Lower budget	Intermediate budget	Higher budget
Total budget 1/	8,665	12,157	17,576	120	119	117
Total family consumption	8,292	11,426	16,284	120	119	117
Food	3,003	3,890	4,962	138	134	136
At home	2,836	3,531	4,245	141	137	139
Away from home	167	359	717	95	109	123
Housing	2,587	3,827	5,985	109	113	113
Shelter	1,860	2,356	3,423	103	107	110
Renter costs	2,383	3,293	4,520	147	155	140
Homeowner costs	1,512	1,851	2,953	79	83	97
Housefurnishings, operations	727	1,471	2,396	126	123	118
Transportation	782	1,293	2,001	141	121	102
Clothing	260	428	615	107	105	98
Personal care	222	323	473	112	111	112
Medical care	1,111	1,120	1,129	102	103	103
Other family consumption	327	545	1,119	119	119	124
Other items	373	731	1,292	120	119	116

1/ Among the 25 metropolitan areas for which separate indexes were reported, Honolulu ranked second at all three levels (Anchorage ranked first at all three levels).

Source: U.S. Department of Labor, Bureau of Labor Statistics, _Three Budgets for a Retired Couple, Autumn 1981_ (release, USDL: 82-266, July 30, 1982).

Table 443.-- COST OF LIVING INDEXES AND PAY DIFFERENTIALS FOR FEDERAL EMPLOYEES IN HAWAII RELATIVE TO WASHINGTON, D.C.: 1983

Allowance category 1/	Oahu	Kauai	Maui County	Hawaii
INDEXES 2/				
Local retail:				
Private housing	121.7	114.6	120.9	113.1
Federal housing	105.0	106.7	113.4	104.6
Commissary, PX:				
Private housing	111.8	113.1	...	...
Federal housing	95.1	105.1	...	...
ALLOWANCE RATES 3/				
Local retail:				
Private housing	22.5	15.0	20.0	12.5
Federal housing	5.0	7.5	12.5	0
Commissary, PX:				
Private housing	12.5	12.5	...	...
Federal housing	0	5.0	...	...

1/ Based on access to military commissary and exchange facilities and type of housing occupied. "Local retail" refers to Federal employees who purchase goods and services from private retail establishments; "commissary, PX," to Federal employees who have unlimited access to and who use military commissary and exchange facilities. "Private housing" refers to Federal employees who occupy housing units that are privately owned or rented; "Federal housing," to Federal employees who occupy units owned or leased by a Federal agency.

2/ Washington, D.C., living costs=100. Based on a survey of comparative costs for Federal employees in 1983.

3/ Authorized allowance rate, expressed as a percentage differential, effective October 2, 1983.

Source: U.S. Office of Personnel Management, "Nonforeign Area Cost-of-Living Allowances for Guam and the State of Hawaii and Post Differentials for Certain Pacific Islands," Federal Personnel Manual System, FPM Letter 591-47 (1983).

Table 444.-- COST OF RAISING A CHILD FROM BIRTH TO AGE 18: 1986

[In dollars. Moderate-cost level. Estimated for Western States]

Residence	Annual average	18-year total
Urban	5,700	102,595
Rural nonfarm	5,954	107,173

Source: U.S. Department of Agriculture, Family Economics Review, 1987, No. 2, pp. 30-31.

Section 15

BANKING, INSURANCE, AND BUSINESS ENTERPRISE

Statistics in this section relate to banks and other financial institutions, stocks and bonds, insurance, fires, and business firms.

There were 10 banks with 181 branches, eight savings and loan associations with 163 branches, three trust companies with six branches, and 66 industrial loan or small loan licensees with 204 branch offices in Hawaii as of December 31, 1986. Deposits in Island banks reached $8.0 billion at the end of 1985, compared with $2.7 billion in 1975. Assets of savings and loan associations stood at $4.9 billion in December 1984, almost three times their 1975 level. There were 136 credit unions with combined assets of $1.9 billion at the end of 1986.

Approximately 256,000 Hawaii residents held shares in U.S. public corporations or investment companies in 1985.

Life insurance in force in Hawaii at the end of 1985 amounted to $30 billion, more than twice the figure reported ten years earlier. For all 739 insurance companies doing business in the Islands, Hawaii premiums amounted to $1.13 billion in 1985 and losses, claims, and benefits paid came to $593 million. Fire losses in fiscal 1987 amounted to $14 million. Persons covered by the four major prepaid health insurance plans as of December 31, 1986, numbered 720,000, with annual membership dues of $479 million.

By mid-1986, more than 40,600 corporations and partnerships were registered to do business in Hawaii: 27,200 local ("domestic") corporations, 4,500 out-of-State ("foreign") corporations, and 8,900 partnerships. Business establishments with one or more employees in 1985 numbered 25,742; over half had fewer than five employees. During fiscal 1986, 3,010 new local corporations were formed. Business receipts of corporations in 1983 exceeded $21 billion; business receipts of partnerships and proprietorships in the same year amounted to respectively $1.7 billion and $1.2 billion. Hawaii's largest corporation, Amfac, Inc., reported annual sales of $1.96 billion. Business failures numbered 246 in 1985.

Sources for statistics on these subjects include the Hawaii State Department of Commerce and Consumer Affairs (specifically its Financial Institutions, Insurance, and Business Registration Divisions), the State Department of Taxation, the Honolulu Fire Department, the New York Stock Exchange, Dun and Bradstreet, Inc., local health insurance plans, the Hawaii Credit Union League, and the annual report on County Business Patterns issued by the U.S. Bureau of the Census. Historical Statistics of Hawaii, Sections 22 and 23, provides information for earlier periods. Comparable Mainland data appear in Sections 16 and 17 of Statistical Abstract of the United States: 1987.

Table 445.-- NUMBER OF FINANCIAL INSTITUTIONS, BY TYPES: 1979 TO 1986

[Excludes out-of-State branches of Hawaii-based institutions. As of December 31]

Year	Banks		Savings and loans associations		Trust companies		Industrial loan licensees	
	Firms	Branch offices	Associations	Branch offices	Firms	Branch offices	Firms	Branch offices
1979	9	159	9	136	4	7	77	247
1980	9	169	8	156	4	7	71	238
1981	9	171	9	163	4	7	76	236
1982	10	166	8	153	4	7	78	230
1983	10	162	8	166	4	7	72	209
1984	10	178	8	163	4	7	77	223
1985	10	179	8	163	4	7	66	201
1986	10	181	8	163	3	6	66	204
ISLANDS: 1986								
Hawaii	5	19	7	18	2	2	11	20
Maui	7	21	7	16	1	1	12	19
Lanai	1	1	2	2	-	-	-	-
Molokai	1	1	2	2	-	-	1	1
Oahu	8	126	8	114	3	3	62	156
Kauai	4	13	6	11	-	-	6	8
Niihau	-	-	-	-	-	-	-	-

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Financial Institutions, records.

Table 446.-- CHARACTERISTICS OF FINANCIAL INSTITUTIONS, BY TYPES: 1976 TO 1986

[Assets and deposits as of December 31]

Year	Banks			
	Assets ($1,000)	Deposits 1/ ($1,000)	Debits to demand deposits (million dollars)	Clearings (million dollars)
1976	3,353,783	2,996,415	44,909	27,173
1977	3,609,198	3,232,769	50,493	30,438
1978	4,236,593	3,709,174	58,265	34,104
1979	4,898,049	4,362,971	72,493	39,746
1980	5,412,104	4,792,209	84,337	42,720
1981	6,210,547	5,433,332	90,281	43,334
1982	6,736,172	6,020,395	89,384	42,812
1983	7,378,726	6,584,371	89,147	43,852
1984	8,145,831	7,183,928	91,806	43,628
1985	(NA)	(NA)	95,843	44,697
1986	(NA)	(NA)	108,555	46,296

Year	Savings and loan associations 2/		Trust company assets ($1,000)	Industrial loan licensee assets ($1,000)
	Assets ($1,000)	Withdrawable shares 3/ ($1,000)		
1976	2,141,259	1,683,972	58,546	733,055
1977	2,535,006	2,030,848	58,003	762,108
1978	3,188,821	2,368,868	61,346	817,645
1979	3,775,671	2,557,345	53,418	980,495
1980	4,263,188	3,025,368	84,658	1,002,058
1981	4,528,178	3,098,834	106,149	1,100,895
1982	4,709,228	3,332,030	134,985	1,350,942
1983	4,713,164	3,613,952	43,853	1,043,626
1984	4,865,454	3,862,419	41,350	1,154,653
1985	(NA)	(NA)	40,715	1,286,792
1986	(NA)	(NA)	62,234	1,481,514

NA Not available.
1/ Includes foreign deposits beginning in 1981.
2/ Hawaii offices only.
3/ Includes NOW accounts.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Financial Institutions, Comparative Statements of Condition (semi-annual), monthly releases, and records.

Table 447.-- SELECTED FINANCIAL INSTITUTIONS STATISTICAL SUMMARY: 1983 TO 1985

Subject	1983	1984	1985
Domestic deposit market shares: 1/			
Total deposits (mil. dol.)	10,866	11,899	13,241
Percent	100.0	100.0	100.0
FDIC-insured commercial banks	57.5	59.1	60.1
FSLIC-insured savings institutions	32.5	31.5	29.4
Credit unions	9.9	9.4	10.5
Commercial banks: 2/			
Assets (mil. dol.)	7,251	8,210	9,207
Deposits (mil. dol.)	6,261	7,033	7,959
Insured commercial banks: 2/			
Assets (mil. dol.)	7,210	7,358	8,259
Gross loans	4,001	4,656	5,134
Commercial and industrial	1,157	1,252	1,354
Real estate	1,873	2,156	2,426
Deposits (mil. dol.)	6,253	7,033	7,959
Time and savings	4,948	5,689	6,439
FSLIC-insured savings institutions: 2/			
Number	6	(NA)	6
Assets (mil. dol.)	3,298	(NA)	3,584
Mortgage loans outstanding (mil. dol.)	2,481	(NA)	2,646
Deposits (mil. dol.)	2,498	(NA)	2,748

NA Not available.

1/ As of December 31, except FSLIC-insured savings institutions, as of June 30 beginning 1984.

2/ As of December 31.

Source: Statistical Abstract of the United States (annual).

Table 448.-- CREDIT UNIONS: 1981 TO 1986

[As of December 31]

Year	Number of credit unions	Assets (dollars)	Shares (dollars)	Number of credit union members
1981	152	826,741,896	741,883,222	398,913
1982	147	936,381,493	841,538,942	414,891
1983	144	1,085,367,118	983,903,868	422,240
1984	142	1,237,993,756	1,113,377,400	424,459
1985	137	1,535,426,151	1,390,984,301	425,973
1986	136	1,906,350,845	1,742,031,717	443,015

Source: Hawaii Credit Union League, records.

Table 449.-- HAWAII RESIDENTS HOLDING SHARES IN U.S. PUBLIC CORPORATIONS OR INVESTMENT COMPANIES: 1959 TO 1985

Year	Share-holders	Year	Share-holders
1959	13,000	1980	175,000
1962	18,000	1981	174,000
1965	39,000	1983	234,000
1970	74,000	1985	256,000
1975	58,000		

Source: New York Stock Exchange, Inc., Shareownership in America 1959 (p. 27), Shareownership U.S.A., 1965 Census of Shareowners (p. 22), Shareownership - 1970, Census of Shareowners (p. 20), Shareownership 1975 (p. 19), Shareownership 1980 (p. 19), Shareownership 1981 (p. 21), Shareownership 1983 (p. 24), and Shareownership 1985 (p. 24).

Table 450.-- INSURANCE BUSINESS TRANSACTED IN HAWAII: 1970 TO 1985

[Includes data for all insurance companies, life or other, authorized in Hawaii]

Year	Number of companies authorized, Dec. 31	Premiums paid ($1,000)	Losses, claims and benefits paid ($1,000)	Cumulative net investments in Hawaii Dec. 31 1/ ($1,000)
1970	469	246,986	114,011	977,535
1971	485	276,707	119,880	1,168,952
1972	502	303,954	124,502	1,282,566
1973	517	316,897	132,102	1,354,145
1974	534	331,146	155,272	1,487,228
1975	537	380,480	170,561	1,634,549
1976	542	421,545	192,547	1,771,556
1977	546	488,437	225,675	1,944,507
1978	556	555,392	240,320	2,076,291
1979	579	617,571	280,598	2,234,252
1980	594	682,306	352,515	2,561,217
1981	640	755,298	352,523	2,565,525
1982	699	795,786	436,094	2,731,165
1983	720	872,156	605,722	2,725,453
1984	730	967,105	530,200	2,704,084
1985	739	1,132,282	592,550	2,680,318

1/ Does not include balances in Hawaii banks.

Source: Hawaii State Department of Commerce and Consumer Affairs, Report of the Insurance Commissioner of Hawaii (annual).

Table 451.-- LIFE INSURANCE BUSINESS TRANSACTED IN HAWAII: 1970 TO 1985

Year	Number of companies, 1/ Dec. 31	Insurance written 2/ ($1,000)	Insurance in force, Dec. 31 ($1,000)	Premiums ($1,000)	Losses, claims, and benefits paid ($1,000)
1970	223	1,376,907	7,441,077	98,360	40,267
1971	233	1,565,272	8,127,837	106,524	45,301
1972	239	1,484,039	8,788,361	115,491	44,661
1973	262	1,935,643	9,433,897	120,229	47,980
1974	270	2,614,259	11,383,173	130,102	54,009
1975	279	2,046,479	12,650,488	138,597	53,291
1976	283	2,269,602	13,560,838	148,977	65,312
1977	285	2,432,658	14,680,847	161,725	63,040
1978	291	2,814,838	15,803,154	172,999	64,391
1979	311	2,999,500	17,122,778	186,487	74,627
1980	318	3,694,867	19,131,180	197,394	82,333
1981	346	4,995,919	21,287,888	204,049	98,942
1982	379	4,928,880	23,138,362	214,728	120,827
1983	390	6,230,150	26,133,708	227,848	141,096
1984	401	6,294,746	28,060,450	257,611	168,487
1985	410	6,965,896	30,478,068	302,554	199,101

1/ Authorized in Hawaii, including fraternal benefit societies.

2/ Face value of insurance policies; includes insurance revived, increased, or transferred.

Source: Hawaii State Department of Commerce and Consumer Affairs, Report of the Insurance Commissioner of Hawaii (annual), and records.

Table 452.-- INSURANCE PREMIUMS AND LOSSES PAID, BY CLASS OF INSURANCE: 1985

[Dollars]

Class of insurance	Premiums	Losses, claims, and benefits paid
All classes	1,132,281,896	592,550,416
Life 1/	299,451,844	198,096,411
Fraternal	3,101,843	1,004,188
Fire, marine, casualty, and miscell.:		
Accident and health	92,014,536	46,571,988
Fire	15,339,310	2,280,237
Allied lines 2/	6,107,493	8,933,902
Homeowners multiple peril	52,101,707	20,147,826
Commercial multiple peril	51,452,822	16,608,719
Private passenger auto no-fault	47,465,329	29,355,925
Other private passenger auto liability	105,964,899	68,454,796
Commercial auto no-fault	4,461,405	3,693,693
Other commercial auto liability	31,098,497	25,850,378
Private passenger auto physical damage	81,553,804	35,582,374
Commercial auto physical damage	10,396,344	5,547,534
Workers' compensation	192,884,093	89,741,668
Other liability	51,578,575	22,705,874
Medical malpractice	11,567,552	3,378,009
Glass	183,333	33,775
Burglary and theft	1,193,670	56,752
Boiler and machinery	1,746,198	621,449
Fidelity and surety	14,420,793	1,359,660
Ocean marine	4,638,479	2,671,309
Inland marine	13,647,124	2,949,341
Earthquake	145,452	-
All other 3/	15,872,509	5,842,687
Surplus lines	23,894,285	1,061,921

1/ Excludes annuities and $1,234,407 in premiums for insurance on nonresidents.

2/ Includes extended coverage; tornado, windstorm and hail; sprinkler and water damage; explosion, riot and civil commotion; growing crops; flood; rain; and damage from aircraft and vehicle.

3/ Aircraft (all risks); title, credit, mortgage guaranty; livestock; service fees, excess of loss.

Source: Hawaii State Department of Commerce and Consumer Affairs, Report of the Insurance Commissioner of Hawaii, 1986, p. 8.

Table 453.-- INSURANCE BUSINESS TRANSACTED IN HAWAII, BY LOCATION OF HOME OFFICE: 1985

[Money amounts in millions of dollars. For insurance companies authorized to do business in Hawaii]

Subject	All companies	Domestic companies 1/	Foreign companies 2/	Alien companies 3/ (U.S. business only)
Number of companies, Dec. 31	739	20	699	20
Financial condition, Dec. 31:				
Assets	978,298.3	852.2	959,140.1	18,306.0
Liabilities exc. capital and surplus	875,288.2	698.1	857,370.3	17,219.8
Policyholder's surplus inc. capital	103,010.1	154.1	101,769.8	1,086.2
Capital	3,449.0	20.7	3,402.3	26.1
Net gain or loss	-10,763.3	-34.9	-10,283.3	-445.1
Hawaii business:				
Direct premiums written	1,271.5	384.8	854.3	32.3
Claims and benefits paid	680.0	197.4	454.8	27.8
Investments in Hawaii, Dec. 31 4/ ...	2,680.3	204.6	2,444.5	31.2
Mortgage loans (principal indebtedness)	1,106.0	102.8	982.9	20.3
Collateral loans (amount lent)	2.0	2.0	-	-
State and county bonds 5/	299.9	15.8	284.1	-
Utilities stocks and bonds 5/	261.9	22.9	229.6	9.4
Industrial and misc. stocks and bonds 5/	821.3	55.1	765.0	1.3
Real estate 5/	189.2	6.0	183.0	0.2
Balances in Hawaii banks	18.8	16.4	2.4	(Z)

Z Less than $50,000.

1/ A domestic insurer is one formed under the laws of Hawaii.

2/ A foreign insurer is one formed under the laws of any State of the United States (including the District of Columbia and Commonwealth of Puerto Rico) other than Hawaii.

3/ An alien insurer is one formed under the laws of a nation other than the United States.

4/ Does not include balances in Hawaii banks.

5/ Market value less encumbrances for real estate.

Source: Hawaii State Department of Commerce and Consumer Affairs, Report of the Insurance Commissioner of Hawaii, 1986, pp. 12, 14, 16, 17, 38, and 39.

Table 454.-- PREPAID HEALTH PLANS: 1983 TO 1986

Subject	1983	1984	1985	1986
BestCare: 1/				
Members covered, Dec. 31 2/	...	...	...	203
Premium revenue 3/	...	...	...	49
Hawaii Medical Service Association:				
Persons covered, Dec. 31 2/	535,303	548,015	567,210	567,287
Membership dues 3/ ($1,000)	275,030	290,855	330,045	378,387
Island Care:				
Persons covered, Dec. 31 2/	7,610	9,418	13,526	14,924
Membership dues 3/ ($1,000)	3,659	5,565	8,233	10,193
Kaiser Foundation Health Plan:				
Persons covered--2/				
Annual average	127,359	135,077	137,359	136,608
Dec. 31	131,304	137,683	138,051	137,146
Membership dues 3/ ($1,000)	60,146	72,281	81,759	90,287
Commercial carrier premiums for accident and health insurance ($1,000)	80,413	89,035	92,015	(NA)

NA Not available.

1/ Enrollment began August 1986.

2/ Subscribers and dependents, whether on a group or individual basis.

3/ Includes both employers' and employees' contributions.

Source: Data provided by BestCare, Hawaii Medical Service Association, Island Care, and Kaiser Foundation Health Plan, Inc.; Report of the Insurance Commissioner (annual).

Table 455.-- MAJOR FIRES, FOR OAHU: 1877 TO 1986

Fire	Date	Fire deaths	Property loss ($1,000)
Esplanade	Dec. 18, 1877	-	259
Chinatown	April 18, 1886	-	1,455
Chinatown	Jan. 20, 1900	-	1/ 3,175
City of Honolulu, Pier 8	May 25, 1930	-	2,000
Pearl Harbor attack	Dec. 7, 1941	(NA)	2/ 500
Kalihi air crash	June 8, 1944	3/ 10	(NA)
Enchanted Lakes residence	July 24, 1961	5	26
Chevron and Shell, Pier 30	Aug. 15, 1980	2	3,000

NA Not available.
1/ Claims total. Awards amounted to $1,473,000.
2/ Private property only.
3/ On ground only. The air collision itself killed 4.

Source: *Pacific Commercial Advertiser*, December 22, 1877, p. 2; H. A. Smith, "The Honolulu Fire Department," *Hawaiian Annual for 1932*, pp. 49-55; *Honolulu Star-Bulletin*, May 26, 1930 (p. 1), June 23, 1930 (p. 1), and June 9, 1944 (p. 1); Gwenfread Allen, *Hawaii's War Years 1941-1945* (1950), pp. 6-7; *Honolulu Advertiser*, July 25, 1961, p. A-2; *Annual Report, 1980-1981*, *Fire Department, City & County of Honolulu*, p. 5.

Table 456.-- FIRE ALARMS, DEATHS, AND LOSSES: 1983 TO 1987

[State totals for years ended June 30]

Subject	1983	1984	1985	1986	1987
Fire alarms	9,171	8,656	8,586	8,021	7,890
Fires	6,964	6,716	6,511	6,030	6,008
False alarms	994	946	1,128	1,016	884
Needless alarms 1/	1,213	994	947	975	998
Fire deaths	13	12	4	2/ 8	5
Fire losses ($1,000)	14,519	16,856	16,509	(NA)	13,768

Footnotes and source follow next table.

Table 457.-- FIRE ALARMS, DEATHS, AND LOSSES, BY COUNTIES: 1986 AND 1987

[Years ended June 30]

Subject	State total	Honolulu	Hawaii	Kauai	Maui
1986					
Fire alarms	8,021	5,885	883	601	652
Fires	6,030	4,367	630	519	514
False alarms	1,016	818	63	66	69
Needless alarms [1]	975	700	190	16	69
Fire deaths	[2] 8	[2] 7	1	-	-
Fire losses ($1,000)	(NA)	9,172	2,757	581	(NA)
1987					
Fire alarms	7,890	6,244	815	251	580
Fires	6,008	4,835	558	177	438
False alarms	884	701	66	41	76
Needless alarms [1]	998	708	191	33	66
Fire deaths	5	0	1	0	4
Fire losses ($1,000)	13,768	9,582	2,599	344	1,243

NA Not available.

[1] Non-fire incidents, such as smoke scares or overheated food.

[2] Includes 2 possible homicides.

Source: Data from National Fire Information Reporting System (NFIRS) supplied by Honolulu Fire Department, October 7, 1987.

Table 458.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS: 1975 TO 1985

[Data refer to establishments with taxable payrolls. Coverage excludes government and self-employed workers]

Year	Number of employees 1/	Payroll ($1,000)		Number of establishments, by employment-size class 2/		
		First quarter	Annual	Total	1 to 4	5 to 9
1975	252,254	543,590	2,274,957	17,095	9,041	3,317
1976	252,252	577,390	2,412,122	17,271	9,135	3,359
1977	263,079	630,090	2,637,726	18,660	9,942	3,741
1978	282,256	699,638	2,966,228	19,222	9,849	3,991
1979	302,763	809,676	3,451,980	20,621	10,568	4,285
1980	314,106	930,312	3,849,636	21,125	10,928	4,346
1981	312,195	984,003	4,092,561	21,264	10,969	4,337
1982	309,546	1,026,323	4,264,863	21,655	11,095	4,592
1983	308,627	1,094,458	4,505,090	24,519	13,320	5,039
1984	318,635	1,192,429	4,824,535	25,093	13,588	5,225
1985	327,336	1,251,456	5,223,950	25,742	14,058	5,261

Year	Number of establishments by employment-size class -- Con.					
	10 to 19	20 to 49	50 to 99	100 to 249	250 to 499	500 or more
1975	2,305	1,546	565	226	56	39
1976	2,332	1,544	566	248	49	38
1977	2,397	1,642	589	257	52	40
1978	2,695	1,721	602	264	57	43
1979	2,866	1,864	653	281	54	50
1980	2,868	1,906	666	311	55	45
1981	2,973	1,905	663	309	63	45
1982	2,921	2,005	648	296	56	42
1983	3,093	2,001	667	305	51	43
1984	3,167	1,990	709	313	52	49
1985	3,181	2,084	734	314	58	52

1/ For week including March 12.

2/ Data for 1983 and later years refer to establishments active anytime during the year; data for 1982 and earlier years refer to establishments in business at the end of the year.

Source: U.S. Bureau of the Census, County Business Patterns (annual).

Table 459.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY COUNTIES: 1984 AND 1985

[Excludes government employees and self-employed persons]

Year and county	Number of establishments 1/	Number of employees 2/	Payroll ($1,000) First quarter	Payroll ($1,000) Annual
1984				
State total	25,093	318,635	1,192,430	4,824,535
Hawaii	2,555	23,763	78,082	307,891
Honolulu	18,982	256,901	989,573	3,999,562
Kauai	1,146	11,631	38,136	157,264
Maui	2,406	26,324	86,518	359,493
Statewide	4	16	121	326
1985				
State total	25,742	327,336	1,251,456	5,223,950
Hawaii	2,657	24,023	79,366	324,379
Honolulu	19,340	262,794	1,035,488	4,312,605
Kauai	1,209	12,654	40,943	173,828
Maui	2,528	27,781	95,326	411,441
Statewide	8	84	333	1,697

1/ Data refer to establishments active anytime during the year.

2/ For week including March 12.

Source: U.S. Bureau of the Census, County Business Patterns, 1985, Hawaii, CBP-85-13 (August 1987), p. 17.

Table 460.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY MAJOR INDUSTRY GROUP: 1984 AND 1985

[Excludes government and self-employed workers]

Major industry group	Number of establish- ments 1/	Number of employees 2/	Annual payroll ($1,000)
1984			
Total	25,093	318,635	4,824,535
Agricultural services, forestry, fisheries	231	1,857	21,041
Mining	16	192	4,902
Contract construction	1,674	17,438	402,872
Manufacturing 3/	927	21,818	375,274
Food and kindred products	220	9,845	157,055
Apparel and other textile products	150	3,299	33,238
Transportation, other public utilities	1,058	29,993	653,615
Wholesale trade	1,766	18,002	346,545
Retail trade 3/	6,473	87,167	909,357
Eating and drinking places	1,857	35,230	268,488
Finance, insurance, real estate	3,125	29,979	499,845
Services 3/	7,869	106,179	1,541,103
Hotels and other lodging places	241	25,698	328,932
Health services	1,852	21,696	434,977
Nonclassifiable establishments	1,954	6,010	69,981
1985			
Total	25,742	327,336	5,223,950
Agricultural services, forestry, fisheries	225	1,697	20,521
Mining	14	186	5,317
Contract construction	1,703	17,022	451,539
Manufacturing 3/	988	20,914	374,476
Food and kindred products	219	8,444	150,299
Apparel and other textile products	176	3,496	35,953
Transportation, other public utilities	1,088	30,447	676,649
Wholesale trade	1,827	18,281	364,839
Retail trade 3/	6,704	92,080	1,024,922
Eating and drinking places	1,951	37,875	297,029
Finance, insurance, and real estate	3,152	29,939	539,699
Services 3/	8,145	112,582	1,710,802
Hotels and other lodging places	250	28,765	370,342
Health services	1,921	21,361	465,064
Nonclassifiable establishments	1,896	4,188	55,185

Footnotes and source on next page.

Table 460.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY MAJOR INDUSTRY GROUP: 1984 AND 1985 - Con.

1/ Data refer to establishments active anytime during the year.
2/ For week including March 12.
3/ Includes subgroups not shown separately.
Source: U.S. Bureau of the Census, County Business Patterns, 1985, Hawaii, CBP-85-13 (August 1987), pp. 1-2.

Table 461.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY EMPLOYMENT-SIZE CLASS: 1985

[Excludes government employees and self-employed persons]

Employment-size class	Number of establishments	Number of employees	Annual payroll ($1,000)
Total	25,742	327,336	5,223,950
1 to 4	14,058	24,951	488,767
5 to 9	5,261	34,731	488,232
10 to 19	3,181	42,931	589,283
20 to 49	2,084	63,085	909,075
50 to 99	734	49,864	779,104
100 to 249	314	44,805	757,093
250 to 499	58	19,930	297,431
500 to 999	37	24,576	377,749
1,000 or more	1/ 15	22,463	537,197

1/ 1,000-1,499 employees, 11 establishments; 1,500-2,499, 3 establishments; 2,500-4,999, 1 establishment.

Source: U.S. Bureau of the Census, County Business Patterns, 1985, Hawaii, CBP-85-13 (August 1987), pp. 3, 11, and 16.

Table 462.-- REGISTERED CORPORATIONS AND PARTNERSHIPS: 1984 TO 1987

[Excludes eleemosynary corporations]

Subject	1984	1985	1986	1987
Domestic (Hawaii) corporations:				
Formed 1/	2,770	2,969	3,010	3,191
Dissolved or merged 2/	4,103	2,617	2,183	2,221
On record, June 30	26,010	26,362	27,189	28,159
Foreign (non-Hawaii) corporations:				
Qualified 1/	495	581	596	626
Withdrawn, merged, or cancelled 2/	313	320	371	351
On record, June 30	4,059	4,320	4,545	4,820
Partnerships:				
Registered 1/	1,430	1,388	1,557	1,392
Dissolved or cancelled 2/	1,249	1,565	1,505	1,297
On record, June 30	9,001	8,824	8,876	8,971

1/ Annual totals for fiscal years ended June 30.

2/ Annual totals for fiscal years ended June 30. Annual fluctuations may partly reflect the sporadic purging of defunct firms from the registration files.

Source: Hawaii State Department of Commerce and Consumer Affairs, Business Registration Division, November 20, 1987.

Table 463.-- CHARACTERISTICS OF CORPORATIONS, PARTNERSHIPS, AND PROPRIETORSHIPS: 1979, 1981, AND 1983

[Money amounts in millions of dollars]

Subject	1979	1981	1983
CORPORATIONS 1/			
Number of corporations	13,285	16,585	18,420
Taxable	7,463	7,536	8,040
Nontaxable	5,822	9,049	10,380
Business receipts	13,442	17,878	21,072
Taxable corporations	9,538	10,941	12,368
Nontaxable corporations	3,904	6,937	8,704
Taxable income, excluding net losses 2/	706.9	706.5	682.8
PARTNERSHIPS 3/			
Number of partnerships	...	7,107	7,378
With net profit	...	3,331	3,453
With net loss	...	3,776	3,925
Number of partners	...	105,983	83,313
Business receipts	...	1,661.8	1,737.9
Businesses with net profit	...	1,018.0	1,065.8
Businesses with net loss	...	643.8	672.2
Net profit reported	...	311.8	358.1
Net loss reported	...	346.0	366.3
PROPRIETORSHIPS			
Number of proprietorships	46,029	54,473	54,182
With net profit	32,357	33,475	36,330
With net loss	13,672	20,998	17,852
Business receipts	1,051.0	868.5	1,236.2
Businesses with net profit	896.9	717.3	1,050.6
Businesses with net loss	154.1	151.2	185.7
Net profit reported	263.5	184.4	254.0
Net loss reported	35.0	58.4	63.9

1/ Includes domestic, foreign, and small business corporations.

2/ Includes taxable income reported by small business corporations, taxable to individual stockholders only.

3/ Not available before 1981.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns for Corporations (1979), Proprietorships (1979), Corporation, Proprietorship, Partnership (1981 and 1983), and records.

Table 464.-- LARGEST PUBLIC AND PRIVATE CORPORATIONS: MOST RECENT AVAILABLE YEAR

[Data may include sales and employment on the Mainland or abroad]

Company	Year founded 1/	Sales (million dollars) 2/	Employees
Amfac	1849	1,962.2	20,000
Castle & Cooke	1851	1,737.9	35,000
Pacific Resources Inc. (PRI)	1904/1970	816.1	875
Hawaiian Electric Industries	1891/1983	558	2,148
Alexander & Baldwin	1870/1900	536.7	3,250
Chevron USA Inc. (Hawaii Division)	1904	496	272
Bancorp Hawaii	1897/1971	485.5	3,281
Hawaiian Telephone Company	1883	440.2	4,330
Hawaii Medical Service Assn. (HMSA)	1938	378.4	850
First Hawaiian, Inc.	1858/1974	311.4	2,201

1/ If two years are given, the first is the founding date of the original company, the second is when it became a holding company, sold, or legally changed its name.

2/ Latest available data. May be fiscal year or calendar year.

Source: Diane Chang, "Top 250," Hawaii Business, August 1987, pp. 66 and 68.

Table 465.-- NET INCOME OR LOSS AND TOTAL REVENUES OF SELECTED COMPANIES: 1985 AND 1986

[Based on 1986 data for reporting companies]

Company	Net income or loss ($1,000)		Revenues (1,000,000)	
	1985	1986	1985	1986
Largest net incomes:				
Alexander & Baldwin	83,590	92,380	506.3	536.7
Hawaiian Telephone	49,025	53,001	398.4	440.2
Bancorp Hawaii	38,561	46,185	459.0	485.5
Largest net losses:				
Amfac	1/ 17,912	66,599	2,405.0	1,962.2
Mid Pacific Air	9,225	8,700	39.1	64.3
Princeville Development 2/	1/ 1,513	2,806	10.4	15.0

1/ Net income.
2/ Fiscal year 1985 ending November 30.
Source: Diane Chang "Top 250," Hawaii Business, August 1987, p. 60.

Table 466.-- EMPLOYEES AND REVENUES FOR SELECTED COMPANIES: 1986

Company	Employees	Revenues	
		Total (mil. dol.)	Per employee ($1,000)
Highest revenues per employee:			
Waitec Development	4	32	8,000
Wailea Point Development	10	40.7	4,100
Nissan Motor Corp. in Hawaii	32	101.6	3,200
Lowest revenues per employee:			
MTL Inc.	1,150	19	16.5
Spencecliff Corporation	1,400	30.7	21.9
Gray-Line Hawaii	615	16	26.0

Source: Diane Chang, "Top 250," Hawaii Business, August 1987.

Table 467.-- MINORITY-OWNED BUSINESSES: 1982

[Includes partnerships in which at least half of the partners were members of a specified minority group, and corporations in which 50 percent or more of the shares were owned by such persons. For detail by industry divisions and counties, see source]

Minority 1/	Number of firms		Sales and receipts ($1,000)	
	Total	With paid employees	Total	With paid employees
All minorities 2/	30,129	3,142	2,443,206	2,092,348
Black	330	23	5,857	3,209
Hispanic origin	759	58	17,913	11,634
Mexican	144	14	7,965	6,989
Puerto Rican	278	15	3,748	1,889
Cuban	14	-	346	-
Other Central or South American	47	2	996	(D)
European Spanish	195	21	3,121	1,777
Other Hispanic	81	5	1,737	(D)
Other minorities	29,040	3,061	2,419,436	2,077,505
Aleut or Eskimo	-	-	-	-
American Indian	43	3	1,189	696
Asian Indian	74	26	1,585	1,174
Chinese	4,369	556	538,131	477,987
Japanese	17,327	1,852	1,104,690	904,563
Korean	1,240	185	59,291	41,363
Vietnamese	126	5	1,677	485
Other Asian	155	43	220,528	218,452
Filipino	3,341	157	50,446	20,781
Hawaiian 3/	2,077	167	44,113	23,337
Other Pacific Islander	169	60	395,418	387,272
Other minorities	119	6	2,368	1,396

D Withheld to avoid disclosing data for individual companies.

1/ Persons of mixed race were instructed to report the race with which they most closely identified. Whites (Caucasians), although only 34.4 percent of the 1980 population of Hawaii, were treated as the "majority" group for census purposes.

2/ Not corrected for double-counting. In this survey, it was possible for a minority-owned firm to be classified in more than one minority group.

3/ For the United States as a whole, Hawaiians owned 3,305 firms (291 with paid employees) with sales and receipts of $85,579,000 ($48,714,000 for those with paid employees). These totals included 1,228 Mainland firms owned by Hawaiians, with sales and receipts of $41,466,000.

Source: U.S. Bureau of the Census, 1982 Survey of Minority-Owned Business Enterprises, MB82-1, Black (August 1985), p. 19; MB82-2, Hispanic (September 1986), p. 48; and MB82-3, Asian Americans, American Indians, and Other Minorities (October 1986), pp. 5 and 58.

Table 468.-- WOMEN-OWNED BUSINESSES: 1982

[Includes partnerships in which at least half of the partners were women, and corporations in which 50 percent or more of the shares were owned by women. For detail by industry divisions, counties, and selected urban places, see source]

Subject	State total	Oahu
All firms:		
Number	16,821	12,506
Sales and receipts ($1,000)	356,498	264,298
Firms with paid employees:		
Number	1,248	928
Employees for pay period incl. March 12	5,538	4,055
Annual payroll ($1,000)	39,356	28,313
Sales and receipts ($1,000)	206,581	153,445

Source: U.S. Bureau of the Census, 1982 Economic Censuses, WB82-1, Women-Owned Businesses (April 1986), pp. 13 and 33.

Table 469.-- BUSINESS CLIMATE INDEXES AND SUBINDEXES: 1987

Index and subindex	Rank	Grade	Index and subindex	Rank	Grade
Performance	10	A	Capacity	16	B
Employment	31	D	Human resources	19	B
Income	24	C	Financial capacity	24	C
Job quality	14	B	Infrastructure	10	A
Equity	5	A	Amenities	8	A
Quality of life	12	B			
			Policy 1/	23	C
Business vitality	32	D			
Competitiveness	42	F			
Entrepreneurial energy	19	B			

1/ Based on effectiveness of governance and regulation; tax policy; commitment to enabling capital mobilization, improved education and research; and help for distressed communities.

Source: The Corporation for Enterprise Development, Making the Grade: The Development Report Card for the States. Executive Summary (1987).

Table 470.-- BUSINESS FAILURES: 1980 TO 1985

[Commercial and industrial failures only through 1983, excluding failures of banks, real estate, insurance, holding, and financial companies, steamship lines, travel agencies, etc. Data for 1984-85 based on expanded coverage and new methodology and are therefore not generally comparable with earlier data. Data include concerns discontinued following assignment, voluntary or involuntary petition in bankruptcy, attachment execution, foreclosure, etc.; voluntary withdrawals from business with known loss to creditors; also enterprises involved in court action, such as receivership and reorganization or arrangement which may or may not lead to discontinuance; and businesses making voluntary compromise with creditors out of court. Liabilities exclude low-term publicly held obligations; offsetting assets are not taken into account]

Subject	1980	1981	1982	1983	1984	1985
Number of failures	83	89	146	145	225	246
Current liabilities (million dollars) ...	21.6	23.5	58.3	34.2	148.8	280.6

Source: Data from Dun and Bradstreet Corporation, cited in *Statistical Abstract of the United States* for 1981-1987.

COMMUNICATIONS

This section presents statistics on the usage, finances, and operations of the Postal Service and of various communications media: telephone, telegraph, radio, television, newspapers, periodicals, and books. Sections 12 and 15 contain employment and payrolls data for communications establishments.

Hawaii is served by all major communications media. In 1987 it had 144 post offices and stations handling 394 million pieces of mail and accounting for postal receipts in excess of $102 million. There were 493,000 telephone access lines in service, 351,000 telephone homes, about 2.35 billion local calls originated, 12 million completed interisland calls (in 1981), and 32 million incoming and outgoing transpacific calls (in 1980). Telegraph messages to and from Hawaii in 1984 totaled 112,000. The 47 commercial, public and educational radio stations in the Islands in 1987 included 27 on the regular broadcast band and 20 FM stations. The State also had 16 television stations (14 commercial and 2 public), including satellites but excluding translators. Nine cable TV companies served 231,000 subscribers. An estimated 97 percent of all households in the State had television sets, and the average prime-time TV audience in February 1987 numbered 200,000 households. Island publishers printed nine daily newspapers, numerous magazines and other periodicals, and a wide diversity of books. Newspaper circulation reported by the two English-language dailies on Oahu averaged 188,000 in 1986-1987.

The major sources for statistics on communications are the reports and records of the U.S. Postal Service, Federal Communications Commission, the CATV Division of the Hawaii State Department of Commerce and Consumer Affairs, Hawaiian Telephone Company, Audit Bureau of Circulations, A. C. Nielsen Co., and Hawaii Media Guide. Earlier figures appear in Historical Statistics of Hawaii, Section 18. Data on communications for other states and for the nation as a whole are carried in Statistical Abstract of the United States: 1987, Section 18.

Table 471.-- POSTAL SERVICE: 1970 TO 1987

[For fiscal years ended June 30 through 1976 and September 30 thereafter]

Fiscal year	Number, end of fiscal year 1/		Gross postal receipts ($1,000)	Pieces of mail 2/ (millions)
	Post offices	Stations		
1970	80	...	20,840	187
1971	80	...	21,976	201
1972	78	...	23,434	215
1973	77	...	27,100	226
1974	76	...	29,663	233
1975	76	...	33,549	238
1976	76	...	37,433	242
1977	76	...	43,790	249
1978	76	...	49,198	267
1979	76	...	55,267	276
1980	76	...	58,413	298
1981	76	...	67,055	293
1982	76	...	77,424	290
1983	76	3/ 50	80,943	305
1984	76	4/ 54	84,733	317
1985	76	64	94,975	339
1986	76	67	102,440	360
1987	75	69	107,946	394

1/ Includes all 1st-, 2nd-, 3rd-, and 4th-class post offices and both classified and contract stations (classified stations are those staffed by career postal employees; contract stations, those operated under a contractual agreement between the Postal Service and an individual contractor). Station counts not available before 1983.

2/ Originating in Hawaii. Mail originating elsewhere is excluded.

3/ April 15.

4/ June 30.

Source: U.S. Postal Service, Honolulu Field Division, records.

Table 472.-- NUMBER OF POST OFFICES AND STATIONS, BY ISLANDS: OCTOBER 26, 1987

Island	Total	Post offices 1/			Stations	
		1st class	2nd class	3rd class	Classified 2/	Contract 3/
State total ..	144	33	27	15	30	39
Hawaii	35	9	11	7	2	6
Maui	17	7	3	-	1	6
Lanai	1	-	1	-	-	-
Molokai	5	1	-	4	-	-
Oahu	66	12	4	1	26	23
Kauai	20	4	8	3	1	4
Niihau	-	-	-	-	-	-

1/ There are no fourth-class post offices in the State.
2/ Staffed by career postal employees.
3/ Operated under a contractual agreement between the Postal Service and an individual contractor.

Source: U.S. Postal Service, Honolulu Field Division, data supplied October 26, 1987.

Table 473.-- RESIDENCES, POST OFFICE BOXES, AND BUSINESSES SERVED BY THE U.S. POSTAL SERVICE, BY ISLANDS: 1987

[As of September 15]

Subject	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Residences ...	310,529	23,743	23,282	-	165	257,465	5,874
P. O. boxes ..	93,974	26,307	13,966	876	1,703	37,098	14,024
Businesses ...	27,049	2,843	2,948	-	-	20,309	949

Source: U.S. Postal Service, San Mateo Postal Data Center, records.

Table 474.-- TELEPHONE ACCESS LINES, BY ISLAND AND TYPE: 1981 TO 1986

[As of December 31. Access lines represent the lines connecting customers to the network regardless of the ownership of the customer premises equipment. Business access includes key and coin system lines]

Year	All access lines	By island		By type		
		Oahu	Other islands	Residence	Business	Other types
1981	431,893	324,968	106,925	314,355	95,000	22,538
1982	445,452	334,150	111,302	323,588	98,691	23,173
1983	458,339	342,094	116,245	332,051	102,923	23,365
1984	472,229	348,936	123,293	339,296	107,830	25,103
1985	479,253	352,674	126,579	*342,296	111,792	25,165
1986	493,079	362,083	130,996	350,790	118,002	24,287

* Revised from Data Book 1986, table 449.
Source: Hawaiian Telephone Company, data provided April 20, 1987.

Table 475.-- TELEPHONES IN SERVICE AND RESIDENCE AND BUSINESS MAIN STATIONS: 1976 TO 1981

[As of December 31. Because of deregulation of the telephone industry, these series became subject to disclosure rules that precluded their publication after 1981]

Year	Telephones in service			Residence main stations	Business main stations
	State total	Oahu	Other islands		
1976	596,952	480,937	116,015	262,982	66,357
1977	627,848	501,914	125,934	273,860	67,869
1978	659,141	523,472	135,669	285,948	71,892
1979	684,812	539,582	145,230	296,433	76,533
1980	712,095	555,790	156,305	303,928	79,565
1981	728,352	563,630	164,722	311,430	81,499

Source: Hawaiian Telephone Company, records; Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 476.-- TELEPHONE CALLS: 1976 TO 1986

[In thousands]

Year	Local 1/		Interisland 2/		Transpacific (paid) 2/	
	Originating	Completed	Paid 3/	Completed	Outgoing	Incoming and outgoing 4/
1976	1,517,337	1,012,064	5,851	6,140	7,448	13,621
1977	1,566,869	1,052,936	6,838	7,028	9,485	17,103
1978	1,719,200	1,139,829	8,087	8,317	12,232	22,540
1979	1,830,954	1,186,458	9,635	10,040	15,160	28,076
1980	1,957,427	1,468,070	10,652	11,239	17,199	31,609
1981	1,857,938	1,393,454	11,316	11,993	(NA)	(NA)
1982	1,892,430	1,419,322	(NA)	(NA)	(NA)	(NA)
1983	1,928,486	1,446,365	(NA)	(NA)	(NA)	(NA)
1984	2,050,778	1,538,084	(NA)	(NA)	(NA)	(NA)
1985	2,225,943	1,669,457	(NA)	(NA)	(NA)	(NA)
1986	2,350,538	1,671,223	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ The number of local calls is affected as central offices are being converted to Electronic Common Control (ECC). ECC records call attempts after the first digit is dialed. Non-ECC offices record the call attempts when the handset is lifted. Also significant in 1981 were an estimated 17 million fewer calls due to the implementation of Directory Assistance Charging. Because of these fundamental changes in data collection, more recent figures are not comparable to earlier years.

2/ As a result of deregulation of the telephone industry, these series became subject to disclosure rules after 1980 or 1981, and regular publication of annual data was discontinued.

3/ Excludes uncollectables.

4/ Includes calls paid in Hawaii and elsewhere.

Source: Hawaiian Telephone Company, records; Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 477.-- TELEPHONE SERVICE, BY ISLANDS: 1981

[As a result of deregulation of the telephone industry, the series shown in this table became subject to disclosure rules after 1981, and regular publication of annual data was discontinued]

Island	Telephones in service, Dec. 31	Main stations, Dec. 31		Inter-island calls 1/
		Residence	Business	
State total ..	728,352	311,430	81,499	11,992,843
Hawaii	70,183	30,735	8,440	2,698,799
Maui	58,875	24,225	6,524	2,384,111
Lanai	916	646	103	...
Molokai	3,652	1,759	440	...
Oahu	563,630	241,261	62,304	5,539,848
Kauai	31,096	12,804	3,688	1,370,085

1/ Number completed, by island of origination. Oahu total includes Lanai and Molokai.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 478.-- TELEGRAPH MESSAGES: 1980 TO 1985

[After 1984, U.S. carriers were no longer required to report traffic for service between Hawaii and the Mainland, and statistics for later years are accordingly incomplete]

Year	Total messages	From Hawaii to Mainland			From Mainland to Hawaii		
		Total from Hawaii	Originated in Hawaii	Originated elsewhere	Total to Hawaii	Originated on Mainland	Originated elsewhere
1980 ..	222,410	120,785	43,543	77,242	101,625	46,564	55,061
1981 ..	196,350	106,248	34,432	71,816	90,102	37,924	52,178
1982 ..	168,501	88,325	27,951	60,374	80,176	31,227	48,949
1983 ..	145,990	71,428	21,739	49,689	74,562	21,777	52,785
1984 ..	112,440	47,765	15,061	32,704	64,675	16,024	48,651
1985 ..	(NA)	(NA)	6,208	(NA)	(NA)	6,265	(NA)

NA Not available.
Source: Federal Communications Commission, Common Carrier Bureau, records.

Table 479.-- CABLE TELEVISION COMPANIES, SUBSCRIBERS, AND REVENUES, BY COUNTIES: 1985 AND 1986

County	Number of companies Dec. 31 1/		Subscribers, Dec. 31		Basic service revenue ($1,000)	
	1985	1986	1985	1986	1985	1986
State total	9	9	220,443	231,335	33,020	33,761
Hawaii	3	4	18,433	20,188	4,182	3,356
Maui	2	2	20,013	18,545	2,226	2,996
Honolulu	3	2	173,129	182,736	24,706	25,455
Kauai	2	2	8,868	9,866	1,906	1,954

1/ State totals are unduplicated figures; one company provided service to both Hawaii and Maui Counties.
Source: Hawaii State Department of Commerce and Consumer Affairs, Cable Television Division, records.

Table 480.-- RADIO AND TELEVISION BROADCASTING STATIONS IN OPERATION, 1927 TO 1987, AND BY COUNTIES, 1987

Date and county	Commercial stations			Non-commercial stations		
	AM	FM	TV 1/	AM	FM	TV 1/
1927: Jan. 1	1	-	-	-	-	-
1942: Jan. 1	4	-	-	-	-	-
1957: Jan. 1	14	1	6	-	2	-
1972: Jan. 1	25	5	10	-	1	2
1987: June 30	27	18	14	-	2	2
COUNTIES: 1987						
Hawaii	4	4	4	-	-	-
Maui	3	6	3	-	-	1
Honolulu 2/	18	7	7	-	2	1
Kauai	2	1	-	-	-	-

1/ Includes satellites but excludes translators and cable television.

2/ Includes one commercial AM station with studio on Oahu but transmitter on Molokai.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), p. 482; Federal Communications Commission, Field Operations Bureau, Honolulu, July 10, 1987.

Table 481.-- TELEVISION HOUSEHOLDS, BY GEOGRAPHIC AREA: 1986 AND 1987

Subject	January 1986			January 1987		
	State total	Oahu	Other islands	State total	Oahu	Other islands
All households	336,000	258,700	77,300	340,900	260,900	80,000
With television .	324,820	251,070	73,750	330,080	253,800	76,280
Percent	96.7	97.1	95.4	96.8	97.3	95.4

Source: Nielsen Station Index, Honolulu, Hawaii, February 1986 and February 1987, table 1.

Table 482.-- HOUSEHOLDS AND PERSONS VIEWING TELEVISION BY TIME OF DAY: 1980 TO 1987

[In thousands. Mean number of viewers, Sunday through Saturday. For 1974-1979, see Data Book 1985, table 436]

Year and month	Sign-on to sign-off 7 A.M. to 1 A.M.		Prime time 6:30 P.M. to 10 P.M.	
	Households 1/	Persons 2/	Households 1/	Persons 2/
1980: Feb.	78	105	169	258
May	74	101	156	240
Nov.	73	128	150	300
1981: Feb.	75	134	158	319
May	79	137	164	320
Nov.	85	146	165	327
1982: Feb.	81	139	166	327
May	75	129	148	293
Nov.	84	142	174	335
1983: Feb.	86	147	182	357
May	85	142	174	330
Nov.	88	147	176	334
1984: Feb.	86	149	182	354
May	82	139	163	317
Nov.	93	158	188	357
1985: Feb.	90	150	187	360
May	87	143	175	332
Nov.	92	156	190	361
1986: Feb.	91	158	194	377
May	88	144	179	331
Nov.	95	154	193	355
1987: Feb.	93	158	200	386
May	90	152	182	351

1/ Average number with a TV set turned on.

2/ Average number of persons, 2 years and older, in TV households that are viewing any station.

Source: Nielsen Station Index, Honolulu, Hawaii, issued three times annually.

Table 483.-- AVERAGE PAID CIRCULATION OF DAILY AND SUNDAY ENGLISH-LANGUAGE NEWSPAPERS: 1983-84 TO 1986-87

[Averages for 12-month periods ended in March. Foreign-language daily newspapers, not included in this table, are the Hawaii Hochi, Japanese and English; The Korea Times and Han Kook Ilbo, Korean; and United Chinese Press, Chinese]

Newspaper	1983-84	1984-85	1985-86	1986-87
Daily:				
Honolulu Advertiser 1/	85,593	86,998	84,782	88,551
Honolulu Star-Bulletin 2/	111,825	110,045	102,734	99,724
Hawaii Tribune-Herald (Hilo) 3/	19,438	19,868	19,946	20,290
West Hawaii Today (Kailua-Kona) 4/ ..	6,762	7,138	7,680	8,298
Maui News (Wailuku) 3/	15,468	15,983	15,506	15,199
Garden Island (Lihue) 5/	9,649	9,550	9,479	9,500
Sunday morning:				
Sunday Star-Bulletin and Advertiser .	197,793	198,184	195,344	199,684
Hawaii Tribune-Herald (Hilo)	21,892	22,605	22,663	22,944
West Hawaii Today (Kailua-Kona) 6/ ..	...	6,626	7,431	8,273
Maui News (Wailuku) 7/	...	14,668	14,684	15,117
Garden Island (Lihue) 8/	...	8,900	8,884	9,300

1/ Mornings, Monday through Saturday.
2/ Afternoons, Monday through Saturday.
3/ Afternoons, Monday through Friday.
4/ Mornings, Monday through Friday.
5/ Afternoons, 4 times weekly (Monday, Tuesday, Wednesday, and Friday).
6/ Beginning April 29, 1984.
7/ Beginning September 1984.
8/ Beginning July 1, 1984.

Source: Audit Bureau of Circulations data provided to DBED by newspaper publishers.

Table 484.-- PERIODICALS PUBLISHED IN HAWAII: 1985

Frequency	Newspapers		Magazines and other periodicals 1/
	English	Foreign language	
Daily, 5 to 7 times weekly ...	6	3	-
2 to 4 times weekly	-	-	1
Weekly	9	1	15
Semi-monthly or biweekly	3	3	18
Monthly	2	-	53
1 to 10 times annually	-	-	40

1/ Includes regularly published magazines, company and in-house publications, labor publications, educational publications, military and federal publications, and special interest publications. Does not include publications that are updated as required, or other irregular publications. Not comparable to previous years' data.

Source: Aloha United Way, Hawaii Media Guide, April 1985.

Table 485.-- BOOKS AND SCHOLARLY JOURNALS PUBLISHED BY THE UNIVERSITY OF HAWAII PRESS: 1985 TO 1987

Year	Published titles 1/		New books and journals published 2/		Volumes sold 2/	Book sales revenues 2/ (dollars)
	Cumulative total	In print	Books	Scholarly journals		
1985	745	580	29	10	235,853	1,229,328
1986	783	610	38	8	270,676	1,435,196
1987	826	643	43	8	279,017	1,497,901

1/ As of June 30.

2/ Year ended June 30.

Source: The University of Hawaii Press, Annual Report (annual) and records.

Table 486.-- COMMUNICATION AND COMMUNICATION-RELATED ESTABLISHMENTS: 1985

SIC code	Industry	No. of establishments	SIC code	Industry	No. of establishments
27	Printing and publishing	175	482	Telegraph communic. ...	3
271	Newspapers	22	483	Radio, TV broadcast. ..	37
272	Periodicals	19	489	Commun. services, n.e.c	30
273	Books	10	731	Advertising	60
274	Miscell. publishing .	7	7311	Advertising agencies	45
481	Telephone communic. ...	17			

Source: U.S. Bureau of the Census, County Business Patterns 1985, Hawaii, CBP-85-13 (August 1987), pp. 4-9.

Table 487.-- ADVERTISING AGENCIES (SIC 7311), FOR OAHU: 1982

[Includes only establishments with payroll]

Subject	Amount	Subject	Amount ($1,000)
Establishments	43	Gross sales of (billings for) advertising media	65,624
Receipts ($1,000)	18,923	Gross billings for advertising materials and other outside production services	21,016
Commission on media sales ..	10,633		
Service fees	3,373		
Other sources	4,917		

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Miscellaneous Subjects, SC82-I-5 (December 1985), table 6.

Table 488.-- POSTAGE RATES AND NEWSPAPER PRICES, FOR HONOLULU: 1977 TO 1987

[In cents. As of July 1]

Year	Domestic first-class postage rates			Newspaper price 1/	
	Letters		Postal and post cards		
	First ounce	Each added ounce		Daily	Sunday
1977	13	11	9	20	50
1978	15	13	10	20	50
1979	15	13	10	25	60
1980	15	13	10	25	60
1981	18	17	12	25	75
1982	20	17	13	25	100
1983	20	17	13	25	100
1984	20	17	13	25	100
1985	22	17	14	35	100
1986	22	17	14	35	100
1987	22	17	14	35	100

1/ Street sales, for the Honolulu Advertiser, Honolulu Star-Bulletin, and Sunday Star-Bulletin and Advertiser.

Source: Postal rates from Statistical Abstract of the United States: 1987, p. 530, as updated. Newspaper rates from nameplates.

Table 489.-- HAWAIIAN TELEPHONE COMPANY RATES FOR SPECIFIED TYPES OF SERVICE, FOR HONOLULU: 1977 TO 1987

[In dollars. As of July 1. Including state and federal excise tax where applicable]

Year	Local call, pay phone	Honolulu to Hilo		Honolulu to California		Monthly charge, indiv. res. line 3/
		Direct dialing 1/	Through operator 2/	Direct dialing 1/	Through operator 2/	
1977 ..	0.10	0.94	0.94	1.86	2.84	9.98
1978 ..	0.15	0.94	0.94	1.84	2.81	11.86
1979 ..	0.15	0.90	0.90	1.61	2.55	11.74
1980 ..	0.15	1.06	1.89	1.64	2.60	11.63
1981 ..	0.15	1.06	1.89	1.64	2.60	11.63
1982 ..	0.15	1.05	1.87	1.74	2.63	11.51
1983 ..	0.15	1.07	1.91	1.77	3.37	11.31
1984 ..	0.15	1.07	1.91	1.66	3.25	11.74
1985 ..	0.15	1.14	2.06	1.54	3.13	12.77
1986 4/	0.25	1.45	2.06	1.32	2.91	14.10
1987 4/	0.25	1.11	2.00	0.98	2.53	14.10

1/ Daytime calls, first three minutes.

2/ Station-to-station operator-handled daytime weekday calls, first three minutes.

3/ Telephone rental included through February 5, 1983, and excluded thereafter. In 1987, the monthly rental charge for a standard dial desk-top telephone was $2.15, and the federal subscriber line charge was $2.00.

4/ AT&T Communications, Inc., rates quoted for Honolulu to California calls.

Source: Hawaiian Telephone Company, records, and AT&T Communications, Inc., records.

Section 17

ENERGY AND SCIENCE

This section presents statistics on energy production and consumption, the electric and gas utility industries, research and development, and scientific resources. Related series are cited in Sections 12 (on utility employment), 14 (prices), and 18 (gasoline consumption).

Total energy consumption in 1985 amounted to 232 trillion British thermal units, compared with 217 trillion BTU a decade earlier. Transportation, including aviation fuels, accounted for 62 percent of the 1985 total. Total expenditures for fuels and electricity in 1986 totaled $1.56 billion.

Electricity sales exceeded 7.0 billion kilowatt-hours in 1986, a total that has increased 25 percent since 1976. Manufactured gas sales reached 31 million therms in 1986, 12.5 percent below the figure ten years earlier. Residential rates in 1986 averaged 9.3 cents per kilowatt-hour and $1.57 per therm, both almost double the corresponding rates a decade earlier. Average residential use (6,714 kWh and 194 therms in 1986) has declined significantly since the early 1970s. By 1986, almost 11 percent of the housing units in the State had solar heating devices.

The liquid fuel tax base for 1986 was approximately 1.06 billion gallons, compared with 850 million in 1976. The 1986 total included 337 million gallons of gasoline, 603 million of aviation fuel, and 115 million of diesel oil. The average price for automotive gasoline rose from 78 cents per gallon in June 1978 to $1.58 three years later, then fell to $1.07 by December 1986.

The State is well served with scientific resources. Especially noteworthy is the cluster of large telescopes used for astronomical observations at the summit of Mauna Kea -- nine major facilities, including those under construction. Federal research and development obligations in Hawaii reached $71 million in 1983. Thirty-seven patents were granted to Hawaii residents in 1986.

Information on energy and science can be obtained from reports and records of the U.S. Department of Energy, U.S. Patent and Trademark Office, U.S. Bureau of Labor Statistics, National Science Foundation, Hawaii State Department of Taxation, Hawaii State Department of Commerce and Consumer Affairs and its Division of Consumer Advocacy, Hawaii State Department of Business and Economic Development Energy Division, UH Institute for Astronomy, and individual utility companies. Historical Statistics of Hawaii, Section 19, presents data for earlier years. Data for the nation as a whole can be found in the Statistical Abstract of the United States: 1987, Sections 19 and 20.

Table 490.-- CONSUMPTION OF ENERGY, BY SOURCE (PHYSICAL UNITS): 1960 TO 1985

Year	Petroleum 1/ (1,000 barrels)	Hydro-electric power 2/ (million kWh)	Geothermal energy (million kWh)	Other 3/ (million kWh)
1960	17,067	27	0	0
1961	20,690	24	0	0
1962	19,733	20	0	0
1963	20,672	23	0	0
1964	22,117	115	0	0
1965	23,178	105	0	0
1966	25,823	112	0	2
1967	29,125	108	0	0
1968	32,385	94	0	30
1969	33,832	100	0	29
1970	34,806	108	0	24
1971	37,432	89	0	15
1972	38,390	91	0	18
1973	39,300	95	0	22
1974	37,286	92	0	30
1975	37,598	89	0	25
1976	37,965	93	0	29
1977	40,229	86	0	26
1978	40,820	84	0	0
1979	44,521	90	0	0
1980	43,500	86	0	0
1981	38,701	80	0	15
1982	35,618	90	0	26
1983	36,322	84	0	28
1984	36,914	82	21	28
1985	39,355	86	19	25

1/ For data by type of petroleum, see source. 1981-1984 revised from *Data Book 1986*, table 465.

2/ Includes industrial and electric utility production.

3/ Wood, waste, wind, photovoltaic, and solar thermal energy sources consumed at electric utilities to produce electricity. Excludes coal, natural gas, and nuclear electric power.

Source: U.S. Department of Energy, Energy Information Administration, *State Energy Data Report, Consumption Estimates, 1960-1985* (April 1987), p. 79.

Table 491.-- CONSUMPTION OF ENERGY, BY SOURCE (TRILLION BTU): 1960 TO 1985

[Revised from Data Book 1986, table 466]

Year	Total energy consumed 1/	Petroleum 2/	Hydroelectric power 3/	Geothermal energy	Coal, nuclear power, and natural gas 4/	Other types 5/
1960	95.8	95.5	0.3	0.0	0.0	0.0
1961	117.1	116.8	0.3	0.0	0.0	0.0
1962	112.2	112.0	0.2	0.0	0.0	0.0
1963	118.1	117.8	0.2	0.0	0.0	0.0
1964	127.9	126.7	1.2	0.0	0.0	0.0
1965	134.2	133.1	1.1	0.0	0.0	0.0
1966	149.2	148.0	1.2	0.0	0.0	(Z)
1967	168.4	167.2	1.1	0.0	0.0	0.0
1968	187.4	186.1	1.0	0.0	0.0	0.3
1969	194.9	193.6	1.0	0.0	0.0	0.3
1970	200.6	199.2	1.1	0.0	0.0	0.3
1971	215.2	214.1	0.9	0.0	0.0	0.2
1972	221.1	220.0	0.9	0.0	0.0	0.2
1973	226.5	225.3	1.0	0.0	0.0	0.2
1974	214.7	213.5	1.0	0.0	0.0	0.3
1975	216.8	215.6	0.9	0.0	0.0	0.3
1976	219.2	217.9	1.0	0.0	0.0	0.3
1977	232.5	231.3	0.9	0.0	0.0	0.3
1978	235.9	235.0	0.9	0.0	0.0	0.0
1979	255.4	254.5	0.9	0.0	0.0	0.0
1980	253.1	249.2	0.9	0.0	3.0	0.0
1981	226.3	222.5	0.8	0.0	2.8	0.2
1982	207.2	203.2	0.9	0.0	2.8	0.3
1983	209.4	205.5	0.9	0.0	2.7	0.3
1984	217.7	213.7	0.8	0.4	2.4	0.3
1985	232.2	227.9	0.9	0.4	2.7	0.3

Z Less than 0.05.

1/ Totals may not equal sum of components due to independent rounding.

2/ For data by type of petroleum, see source.

3/ Includes industrial and electric utility production.

4/ Data for 1980-1985 are apparently in error.

5/ Wood, waste, wind, photovoltaic, and solar thermal energy sources consumed at electric utilities to produce electricity.

Source: U.S. Department of Energy, Energy Information Administration, State Energy Data Report, Consumption Estimates, 1960-1985 (April 1987), p. 79.

Table 492.-- CONSUMPTION OF ENERGY BY END-USE SECTOR: 1960 TO 1984

[Trillion Btu. Revised from Data Book 1986, table 444]

Year	Consumption 1/				Electric utilities 2/
	Residential	Commercial	Industrial	Transportation	
1960	7.3	5.2	18.2	65.2	17.6
1961	7.5	5.4	26.8	77.4	19.4
1962	8.0	5.5	28.9	69.8	21.4
1963	8.9	6.0	29.6	73.5	24.2
1964	9.6	6.6	32.4	79.2	26.7
1965	10.1	6.8	34.7	82.6	27.6
1966	10.8	7.4	36.0	95.1	29.7
1967	12.1	8.0	39.1	109.2	31.3
1968	13.1	8.8	38.9	126.7	35.0
1969	14.9	9.8	41.0	129.2	38.7
1970	16.4	11.6	43.9	128.7	43.2
1971	17.8	11.4	43.7	142.3	47.7
1972	19.6	12.7	49.0	139.7	54.1
1973	20.0	13.5	49.2	143.8	55.6
1974	20.3	13.3	49.5	131.7	57.5
1975	19.6	13.8	49.9	133.4	58.8
1976	21.3	15.3	50.9	131.7	62.5
1977	21.8	16.8	52.6	141.3	65.2
1978	21.8	17.4	52.1	144.6	66.8
1979	22.9	18.1	58.0	156.3	67.7
1980	23.2	20.8	62.4	146.7	69.7
1981	23.0	18.8	60.5	124.0	69.9
1982	21.5	17.6	65.9	102.2	66.9
1983	22.1	17.8	51.5	118.0	68.6
1984	21.0	18.6	46.4	131.7	70.6
1985	20.8	19.3	47.2	144.8	70.0

1/ Excludes small quantities of energy sources for which consistent historical data are not available, such as solar energy obtained by the use of thermal and photovoltaic collectors; wind energy; and geothermal, biomass, and waste energy other than that consumed at the electric utilities. Includes power from electric utilities, including electrical energy losses incurred in the generation and transmission of electricity.

2/ Energy input at electric utilities. Distributed among the other four sectors.

Source: U.S. Department of Energy, Energy Information Administration, State Energy Data Report, Consumption Estimates, 1960-1985 (April 1987), pp. 80-84.

Table 493.-- PRIMARY ENERGY USE, BY SOURCE: 1981 TO 1986

[Thousands of barrels of oil equivalent]

Year	All sources	Petroleum	Biomass	Hydro electricity	Coal	Geothermal	Wind
1981	46,084	42,879	2,791	117	297	-	-
1982	45,891	42,510	2,980	174	202	25	-
1983	47,007	43,616	3,069	141	151	30	-
1984	46,644	43,233	3,119	124	135	33	-
1985	45,078	41,786	3,021	156	58	30	27
1986 1/	44,762	41,439	2,961	162	79	28	93

1/ Provisional.

Source: Hawaii State Department of Commerce and Consumer Affairs, records; Hawaii State Department of Business and Economic Development, records; Hawaiian Sugar Planters' Association, records.

Table 494.-- ELECTRICITY GENERATION BY SOURCE: 1981 TO 1986

[Millions of kWh generated]

Year	Total	Petroleum	Biomass	Hydro-electric	Geothermal	Wind	Coal
1981	7,615	6,913	628	74	-	-	-
1982	7,467	6,729	612	110	16	-	-
1983	7,689	6,914	667	89	19	-	-
1984	7,841	7,073	669	78	21	-	-
1985	7,821	7,001	670	98	19	17	16
1986 1/ .	8,196	7,360	643	102	18	58	15

1/ Provisional.

Source: Hawaii State Department of Commerce and Consumer Affairs, records; Hawaii State Department of Business and Economic Development, records; Hawaiian Sugar Planters' Association, records.

Table 495.-- EXPENDITURES FOR FUELS AND ELECTRICITY, BY SOURCE: 1970 TO 1986

[Millions of dollars]

Year	Total energy expend.	Fuel expenditures			Less: electric utility fuel expend.	Plus: electric purch. by end-user
		Total	Electric utility	Other		
1970	282.7	215.9	17.3	198.6	17.3	84.1
1971	320.8	246.8	24.8	222	24.8	98.8
1972	332.4	250.4	27.3	223.1	27.3	109.3
1973	391.1	300.9	36.3	264.6	36.3	126.5
1974	534.5	433.2	49.8	383.4	49.8	151.1
1975	669.9	546.1	91.9	454.2	91.9	215.7
1976	735.6	600	100.4	499.6	100.4	236
1977	844.5	696.5	123.5	573	123.5	271.5
1978	932.2	767.8	149.3	618.5	149.3	313.7
1979	1,261.3	1,083.7	177	906.7	177	354.6
1980	1,721.3	1,529.8	267.8	1,262	267.8	459.3
1981	2,195.2	1,947.7	451.5	1,496.2	451.5	699
1982	2,153.8	1,869.6	439.4	1,430.2	439.4	723.6
1983	2,019.9	1,730.1	369.3	1,360.8	369.3	659.1
1984	2,048.4	1,724.8	379.3	1,345.5	379.3	702.9
1985	1,921.6	1,586.6	337.6	1,249.0	337.6	672.6
1986 1/ .	1,564.0	1,147.3	224.6	922.7	224.6	641.3

1/ Provisional.

Source: Hawaii State Department of Business and Economic Development, Division of Energy, unpublished estimates.

Table 496.-- EXPENDITURES FOR FUELS AND ELECTRICITY, BY SECTORS: 1970 TO 1986

[Millions of dollars]

Year	Total fuel	Residential		Commercial and industrial		Trans-port: fuel	Electric utilities: fuel
		Fuel	Elect.	Fuel	Elect.		
1970	215.9	5.5	34.1	18.9	50	174.2	17.3
1971	246.8	8.7	38.8	17.9	60	195.4	24.8
1972	250.4	6.1	42.6	20.5	66.7	196.5	27.3
1973	300.9	10.5	48.7	24.4	77.8	229.7	36.3
1974	443.2	10.4	57.1	44.7	94	328.3	49.8
1975	546.1	7.4	76.9	45.8	138.8	401	91.9
1976	600	12.7	84	45.9	152	441	100.4
1977	696.5	13.9	92.9	55	178.6	504.1	123.5
1978	767.8	13.3	105.8	52.6	207.9	552.6	149.3
1979	1,083.7	26.2	118.9	102.4	235.7	778.1	177
1980	1,529.8	19.5	146.4	135.4	312.9	1,107.1	267.8
1981	1,947.7	20.6	214.6	232.4	484.4	1,243.2	451.5
1982	1,869.6	26.2	222.4	283.6	501.2	1,120.4	439.4
1983	1,730.1	22.9	205.9	288.1	453.2	1,049.8	369.3
1984	1,724.8	20.6	217.4	192.1	485.5	1,132.8	379.3
1985 1/ ..	1,586.6	20.6	213.5	100.8	459.1	1,127.6	337.6
1986 2/ ..	1,147.3	13.8	195.8	65.8	445.6	843.1	224.6

1/ Revised from Data Book 1986, table 471.
2/ Preliminary.
Source: Hawaii State Department of Business and Economic Development, Division of Energy, unpublished estimates.

Table 497.-- ELECTRIC UTILITIES: 1976 TO 1986

Year	Customers, Dec. 31			Installed capacity, Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Residential	Other		Total	Residential	Other
1976 ..	270,035	232,070	37,965	1,454,359	5,615,209	1,750,618	3,864,592
1977 ..	275,616	237,557	38,059	1,481,680	5,831,610	1,779,314	4,052,296
1978 ..	284,064	244,863	39,201	1,487,490	6,004,891	1,799,024	4,205,867
1979 ..	293,061	252,898	40,163	1,502,840	6,197,426	1,851,457	4,345,969
1980 ..	301,544	260,358	41,186	1,514,180	6,345,531	1,852,984	4,492,547
1981 ..	305,927	265,042	40,885	1,652,380	6,424,016	1,855,837	4,568,179
1982 ..	313,009	270,712	42,297	1,644,980	6,332,707	1,801,297	4,531,410
1983 ..	319,449	276,194	43,255	1,578,780	6,425,578	1,814,336	4,611,242
1984 ..	324,384	280,518	43,866	1,578,780	6,606,255	1,837,954	4,768,301
1985 ..	330,407	285,117	45,290	1,567,230	6,635,158	1,879,027	4,756,131
1986 ..	337,563	291,222	46,341	1,553,580	7,025,739	1,959,447	5,066,292

Year	Average annual use (kWh) 1/		Average rate (dollars per kWh)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
1976 ..	7,543	101,794	.04796	.03934	235,999	83,957	152,042
1977 ..	7,490	106,474	.05222	.04408	271,553	92,917	178,636
1978 ..	7,347	107,290	.05883	.04943	313,722	105,846	207,876
1979 ..	7,321	108,208	.06420	.05424	354,595	118,862	235,733
1980 ..	7,117	109,079	.07901	.06964	459,251	146,397	312,854
1981 ..	7,002	111,732	.11563	.10605	699,031	214,584	484,447
1982 ..	6,654	107,133	.12348	.11061	723,622	222,423	501,199
1983 ..	6,569	106,606	.11348	.09828	659,089	205,889	453,200
1984 ..	6,552	108,702	.11831	.10181	702,899	217,447	485,452
1985 ..	6,590	105,015	.11361	.09653	672,600	213,478	459,122
1986 ..	6,728	109,326	.09294	.07505	562,345	182,110	380,234

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 498.-- ELECTRIC UTILITIES, BY ISLANDS: 1986

County or island	Customers, Dec. 31			Installed capacity, Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Resi-dential	Other		Total.	Resi-dential	Other
State total	337,563	291,222	46,341	1,553,580	7,025,739	1,959,447	5,066,292
Oahu	235,742	205,636	30,106	1,277,000	5,625,398	1,450,473	4,174,925
Hawaii	42,686	35,524	7,162	101,880	545,615	216,133	329,482
Kauai	20,195	17,086	3,109	59,800	252,511	90,660	161,851
Maui County	38,940	32,976	5,964	114,900	602,216	197,892	404,323
Lanai	884	760	124	-	5,654	3,464	2,191
Maui	35,493	30,121	5,372	103,700	571,290	188,531	382,759
Molokai	2,563	2,095	468	11,200	25,271	10,187	15,084

County or island	Average annual use (kWh) 1/		Average rate (dollars per kWh)		Revenues ($1,000)		
	Resi-dential	Other	Resi-dential	Other	Total	Resi-dential	Other
State total	6,728	109,326	0.09294	0.07505	562,345	182,110	380,234
Oahu	7,054	138,674	0.08328	0.06723	401,478	120,798	280,680
Hawaii	6,084	46,004	0.11879	0.10797	61,249	25,674	35,575
Kauai	5,306	52,059	0.12528	0.12470	31,541	11,358	20,183
Maui County	6,001	67,794	0.12270	0.10832	68,077	24,281	43,796
Lanai	4,558	17,666	0.18806	0.18811	1,063	651	412
Maui	6,259	71,251	0.11461	0.10542	61,959	21,608	40,351
Molokai	4,862	32,232	0.19845	0.20109	5,055	2,022	3,033

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 499.-- GAS UTILITIES: 1976 TO 1986

[Excludes bottled gas]

Year	Customers, Dec. 31			Gas sold (1,000 therms)		
	Total	Residential	Other	Total	Residential	Other
1976 ...	34,264	29,873	4,391	35,568	8,121	27,447
1977 ...	33,722	29,408	4,314	34,844	7,612	27,232
1978 ...	33,413	29,091	4,322	34,919	7,388	27,532
1979 ...	33,309	29,014	4,295	35,264	7,326	27,937
1980 ...	33,019	28,825	4,194	34,705	7,030	27,675
1981 ...	32,421	28,343	4,078	32,396	6,422	25,975
1982 ...	32,905	28,979	3,926	32,224	6,329	25,895
1983 ...	32,880	28,933	3,947	31,307	6,338	24,970
1984 ...	32,643	28,859	3,784	30,928	5,853	25,075
1985 ...	32,988	29,253	3,735	31,203	5,911	25,292
1986 ...	33,369	29,678	3,691	31,122	5,762	25,360

Year	Average annual use (therms) 1/		Average rate (dollars per therm)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
1976 ...	272	6,251	.82767	.63369	24,115	6,722	17,393
1977 ...	259	6,313	.85883	.65821	24,462	6,537	17,925
1978 ...	254	6,370	.91647	.71792	26,536	6,770	19,766
1979 ...	253	6,505	1.09260	.89221	32,931	8,006	24,925
1980 ...	244	6,599	1.46583	1.25951	45,162	10,305	34,857
1981 ...	227	6,369	1.72585	1.50091	50,069	11,083	38,986
1982 ...	218	6,596	1.73311	1.43891	48,229	10,969	37,260
1983 ...	219	6,326	1.79719	1.44022	47,352	11,390	35,962
1984 ...	203	6,627	1.78958	1.37488	44,949	10,474	34,475
1985 ...	202	6,772	1.76934	1.33821	44,305	10,459	33,846
1986 ...	194	6,871	1.57151	1.12027	37,465	9,055	28,410

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 500.-- GAS UTILITIES, BY ISLANDS: 1986

[Excludes bottled gas]

Island	Customers, Dec. 31			Gas sold (therms)		
	Total	Residential	Other	Total	Residential	Other
State total	33,369	29,678	3,691	31,121,766	5,762,090	25,359,676
Oahu	30,831	27,516	3,315	28,137,478	5,318,246	22,819,232
Hawaii	1,890	1,579	311	2,106,560	332,768	1,773,792
Kauai	275	275	-	55,749	55,749	-
Maui	373	308	65	821,979	55,327	766,652
Molokai	-	-	-	-	-	-
Lanai	-	-	-	-	-	-

Island	Average annual use (therms) 1/		Average rate (dollars per therm)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
State total	194	6,871	1.57151	1.12027	37,465	9,055	28,410
Oahu	193	6,884	1.58703	1.12941	34,212	8,440	25,772
Hawaii	211	5,704	1.37861	1.05523	2,331	459	1,872
Kauai	203	-	1.42512	-	79	79	-
Maui	180	11,795	1.38786	0.99884	843	77	766
Molokai	-	-	-	-	-	-	-
Lanai	-	-	-	-	-	-	-

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 501.-- SERVICE PROVIDED BY HAWAIIAN ELECTRIC CO., INC., ON OAHU: 1981 TO 1986

Year	Number of customers, Dec. 31		Net input 1/ (1,000 kWh)	Power sold (1,000 kWh)	Average annual residential use 2/ (kWh)	Average residential rate (dollars per kWh)	Installed capacity 3/ (kW) Dec. 31
	Total	Residential only					
1981 ..	218,162	191,283	5,507,151	5,276,227	7,474	0.11364	1,275,160
1982 ..	222,636	194,468	5,441,941	5,164,332	7,068	0.12066	1,255,600
1983 ..	226,070	197,400	5,546,600	5,230,658	7,030	0.10631	1,200,000
1984 ..	228,606	199,722	5,633,940	5,330,931	6,960	0.11032	1,188,600
1985 ..	231,912	202,222	5,637,678	5,336,262	6,997	0.10417	1,188,600
1986 ..	235,742	205,636	5,933,569	5,625,398	7,113	0.08328	1,188,600

1/ Net generated plus purchased power.
2/ Based on average number of customers during the year.
3/ Maximum generator nameplate. 1984 and 1985 data are revisions.
Source: Hawaiian Electric Co., Inc., records.

Table 502.-- GAS UTILITY SERVICE BY GASCO, INC., FOR OAHU: 1981 TO 1986

Calendar year	Customers, Dec. 31		Gas sold 1/ (1,000 therms)		Average annual residential usage 1/ (therms)
	Total	Residential	Total	Residential	
1981 ...	30,019	26,201	29,543	5,893	225
1982 ...	30,221	26,665	29,307	5,765	216
1983 ...	30,305	26,674	28,795	5,849	219
1984 ...	30,041	26,636	28,190	5,389	202
1985 ...	30,442	27,085	28,255	5,436	201
1986 ...	30,831	27,516	28,137	5,318	193

1/ Includes liquefied petroleum gas.
Source: Gasco, Inc., records.

Table 503.-- LIQUID FUEL TAX BASE: 1976 TO 1986

[In thousands of gallons]

Year reported 1/	All types	Gasoline	Diesel oil	
			Non-hwy.	Hwy. use
1976	850,261	295,704	79,884	13,561
1977	888,136	311,409	85,484	13,817
1978	917,380	324,702	99,755	15,233
1979	960,837	324,337	108,460	16,596
1980	939,766	312,896	101,719	17,765
1981	918,437	305,886	101,212	15,771
1982	893,288	308,600	88,312	17,303
1983	919,865	310,085	86,790	16,440
1984	925,871	322,410	95,956	17,892
1985	970,555	327,021	83,147	17,636
1986	1,059,180	336,559	95,022	19,354

Year reported 1/	Liquefied petroleum gas		Aviation fuel	Small boats	
	Off-hwy.	Hwy. use		Gasoline	Diesel oil
1976	1,858	1,054	456,819	464	917
1977	2,036	1,280	472,654	558	899
1978	1,821	1,216	473,270	445	938
1979	2,213	1,140	506,825	410	856
1980	2,448	1,140	502,544	338	917
1981	2,378	1,136	489,551	424	2,079
1982	2,628	960	474,477	207	802
1983	3,013	1,052	501,648	213	624
1984	2,600	873	485,810	114	215
1985	2,804	1,028	538,055	187	676
1986	2,969	1,031	603,167	163	916

1/ Liquid fuel sold in a given month is usually reported the following month. Annual totals accordingly refer to fuel sold during a 12-month period ended November 30.

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base, Collections and Distribution" (annual report).

Table 504.-- LIQUID FUEL TAX BASE, BY COUNTIES: 1986

[In thousands of gallons]

Type of fuel	State total	City and Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
Total	1,059,180	867,266	89,605	67,142	35,167
Gasoline	336,559	236,287	38,110	44,480	17,681
Diesel oil, non-hwy. ...	95,022	38,106	27,803	12,725	16,388
Diesel oil, hwy. use ...	19,354	14,424	1,532	3,018	379
Liq. pet. gas, off hwy.	2,969	2,023	390	424	132
Liq. pet. gas, hwy. use	1,031	857	38	98	38
Small boats, gasoline ..	163	77	-	86	-
Small boats, diesel oil	916	128	-	787	-
Aviation fuel	603,167	575,364	21,732	5,522	549

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base, Collections and Distribution, Calendar Year Ending December 31, 1986" (annual release).

Table 505.-- GASOLINE SERVICE STATIONS (SIC 554) WITH PAYROLL, BY COUNTIES: 1981 TO 1985

Year	State total	City and Co. of Honolulu	Hawaii County	Kauai County	Maui County
1981	340	254	45	17	24
1982	365	252	59	21	33
1983	379	267	59	25	28
1984	359	251	51	26	31
1985	349	244	50	26	29

Source: U.S. Bureau of the Census, _County Business Patterns, Hawaii_ (annual).

Table 506.-- GASOLINE SERVICE STATIONS: 1982

[Data are shown only for establishments with payroll]

Subject	State total	Oahu only
Number of establishments	366	251
Offering self-service sale of gasoline	64	53
Sales ($1,000)	400,141	299,966
Gallon sales (1,000):		
Gasoline, total	228,151	172,809
Through self-service	51,926	48,879
Other automotive fuels	2,387	1,838
Pumps, Dec. 31:		
Gasoline, total	2,431	1,902
Self-service	478	412
Other automotive fuel	60	44
Total gallon storage capacity, all fuels (1,000)	6,300	(S)

S Withheld because estimates did not meet publication standards.

Source: U.S. Bureau of the Census, 1982 Census of Retail Trade, RC82-I-4, Miscellaneous Subjects (June 1985), tables 2, 3, 4, and 5.

Table 507.-- GASOLINE AVERAGE PRICES PER GALLON, FOR OAHU: 1978 TO 1986

[Dollars. Average prices include all applicable federal, state, and county taxes. This survey was discontinued after December 1986. For earlier years, 1903-1978, see Data Book 1984, tables 497 and 498]

Date		All types 1/	Leaded regular	Unleaded regular	Leaded premium
1978:	June	.778	.761	.765	.793
	Dec.	.804	.778	.791	.821
1979:	June	.957	.922	.956	.970
	Dec.	1.150	1.087	1.164	1.175
1980:	June	1.352	1.310	1.350	1.383
	Dec.	1.407	1.348	1.413	1.441
1981:	June	1.580	1.508	1.588	1.619
	Dec.	1.584	1.520	1.586	1.621
1982:	June	1.512	1.454	1.511	1.556
	Dec.	1.518	1.446	1.522	1.566
1983:	June	1.455	1.391	1.450	1.506
	Dec.	1.474	1.409	1.470	1.530
1984:	June	1.497	1.425	1.490	(NA)
	August ...	1.498	1.419	1.492	(NA)
Revised series 2/					
1984:	Sept.	1.409	1.310	1.406	(NA)
	Dec.	1.384	1.285	1.372	(NA)
1985:	June	1.386	1.269	1.387	(NA)
	Dec.	1.406	1.295	1.421	(NA)
1986:	June	1.212	1.063	1.227	3/ 1.334
	Dec. 4/ ..	1.075	0.961	1.096	3/ 1.252

NA Not available.

1/ Includes types not shown separately.

2/ Because of revised sample design, data are not directly comparable to earlier figures.

3/ Unleaded premium.

4/ U.S. city averages in December 1986 were: all types, $0.830; leaded regular, $0.764; unleaded regular, $0.823; unleaded premium, $0.984.

Source: U.S. Bureau of Labor Statistics, Consumer Prices: Energy and Food (monthly, 1979-1985), CPI Detailed Report (monthly, 1985-1986), and printouts for 1978-1979.

Table 508.-- ENERGY GENERATED, PURCHASED, SOLD AND USED BY RAW SUGAR PLANTATIONS, BY ISLANDS: 1985

Subject	State total	Hawaii	Kauai	Maui	Oahu
Electricity (millions of kilowatt-hours)					
Generated 1/	778.21	211.41	208.03	249.06	109.71
Purchased	27.19	1.54	1.59	9.92	14.14
Sold	334.82	130.04	98.68	94.96	11.14
Used 2/	470.58	82.91	110.94	164.02	112.71
Gross heat values of boiler fuels (billions of Btu's)					
All fuels	25,464	8,698	5,479	7,477	3,810
Bagasse	22,864	8,134	5,154	6,127	3,448
Fuel oil	2,321	564	265	1,277	215
Other fuels	279	-	60	72	147

1/ Includes electricity generated by steam and by hydroelectric or diesel engine generators.

2/ Includes transmission losses and electricity used to operate power plant auxiliaries.

Source: Hawaiian Sugar Planters' Association, Energy Inventory of Hawaiian Sugar Plantations - 1985 (Energy Report 23, December 23, 1986), pp. 6-9.

Table 509.-- BOILERS AND PRESSURE VESSELS: 1985 AND 1986

Date	Total	Power boilers	Heating boilers	Pressure vessels
1985: Dec. 31 ...	8,643	606	2,592	5,445
1986: Dec. 31 ...	8,561	588	2,533	5,440

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, Boiler and Elevator Inspection Bureau, records.

Table 510.-- TAX CREDITS FOR SOLAR DEVICES AND HEAT PUMPS: 1977 TO 1985

[In 1976, the State Legislature approved a tax credit for solar energy devices installed after December 31, 1974. In 1981, the Legislature approved a tax credit for heat pumps installed after December 31, 1980]

Year installed	Solar devices			Heat pumps	
	Number claiming	Average cost (dollars)	Total credit allowed 1/ (dollars)	Number claiming	Credit claimed 1/ (dollars)
1977	1,101	2,135	229,729	...	...
1978	4,061	2,907	1,119,870	...	...
1979	4,375	3,031	1,249,971	...	...
1980	4,704	3,346	1,492,602	...	...
1981	6,445	3,500	2,107,293	2,013	164,155
1982	4,407	3,659	1,511,796	3,122	154,173
1983	3,148	3,601	1,076,222	665	39,921
1984	4,464	3,519	1,482,095	257	12,935
1985	6,740	3,897	2,616,357	12	900

1/ Credit limited to 10 percent of actual cost. Credits are prorated for condominium owners.

Source: Hawaii State Department of Taxation, Tax Credits Claimed by Hawaii Residents for 1977-1985.

Table 511.-- HOUSING UNITS WITH SOLAR WATER HEATING SYSTEMS: 1983 TO 1986

Subject	1983	1984	1985	1986
Number with systems, Dec. 31 ...	26,800	31,800	39,000	39,500
Percent with systems 1/	7.6	8.9	10.7	10.7

1/ Based on April 1 estimates of total housing stock in table 628.

Source: Hawaii State Department of Business and Economic Development, Energy Division, unpublished estimates.

Table 512.-- FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT IN HAWAII: 1979 TO 1983

[Millions of dollars. For fiscal years ended September 30]

Type of obligation	1979	1980	1981	1982	1983
Total obligations for R&D	40.8	42.6	49.9	44.5	71.4
Obligations for R&D plant	0.5	0.2	0.7	0.1	0.1

Source: National Science Foundation, Federal Funds for Research and Development: Fiscal Years 1981, 1982, and 1983, Vol. XXXI, Final Report NSF 83-320, pp. 188-189; and Federal Funds for Research and Development: Fiscal Years 1983, 1984, and 1985, Vol. XXXIII, Detailed Statistical Tables NSF 84-336, p. 141.

Table 513.-- RESEARCH AND DEVELOPMENT EXPENDITURES AT UNIVERSITIES AND COLLEGES: 1980 TO 1984

[Thousands of dollars. For fiscal years ended September 30]

Type of expenditure	1980	1981	1982	1983	1984
Total R&D expenditures	40,593	42,997	43,439	45,401	51,051
Federally financed	25,833	25,153	26,616	27,633	32,701

Source: National Science Foundation, Academic Science/Engineering: R and D Funds, Fiscal Year 1984 (1986), pp. 41-42.

Table 514.-- RESEARCH AND NON-RESEARCH EXTRAMURAL FUNDING, FOR THE UNIVERSITY OF HAWAII: 1982-83 TO 1986-87

[Research and non-research awards received through the Office of Research Administration, University of Hawaii]

Fiscal year	Total		Research		Non-research	
	Awards	Amount (dollars)	Awards	Amount (dollars)	Awards	Amount (dollars)
1982-83 ...	595	45,652,413	392	33,733,083	203	11,919,330
1983-84 ...	583	47,954,042	358	30,204,420	225	17,749,622
1984-85 ...	627	53,267,244	385	36,699,412	242	16,567,832
1985-86 ...	643	53,976,468	354	35,750,696	289	18,225,772
1986-87 ...	647	52,579,742	381	35,838,578	266	16,741,164

Source: Office of Research Administration, University of Hawaii, 1986-1987 Extramural Awards (1987), p. 2.

Table 515.-- PATENTS ISSUED TO HAWAII RESIDENTS: 1979 TO 1986

[Fiscal years ended September 30. Data include design, plant, and reissue patents]

Fiscal year	Patents	Fiscal year	Patents
1979	32	1983	30
1980	32	1984	43
1981	49	1985	33
1982	31	1986	37

Source: U.S. Department of Commerce, Patent and Trademark Office, Commissioner of Patents and Trademarks Annual Report, Fiscal Year '85, p. 50, and records.

Table 516.-- TELESCOPES AT THE SUMMITS OF MAUNA KEA AND HALEAKALA: 1987

Location and telescope (diameter in meters)	Year completed	Capital costs (million dollars)	Operating costs, 1987 (million dollars)	Hawaii-based staff (persons)
Mauna Kea:				
UH .61-m	1969	0.1	0.1	13
UH .61-m	1969	0.1		
UH 2.24-m	1970	3.0		
Canada-France-Hawaii	1979	46.2	3.6	43
NASA 3.0-m IRTF	1979	15.4	1.8	10
UK 3.8-m	1979	15.4	1.5	29
James Clerk Maxwell (UK/NL)	1986	20.0	1.0	20
Caltech 10.4-m Submillimeter	1986	10.0	1.5	11
W.M. Keck Observatory 10-m Optical/IR (under const.)	1990	100.0	2.3	35
Haleakala (on UH land):				
Mees Solar Observatory	1956	0.5	0.3	6
Lunar Ranging Facility	1976/84	3.25	0.7	9
Gamma Ray Facility	1985	2.0	0.2	1

Source: University of Hawaii at Manoa, Institute for Astronomy, data provided July 3, 1987.

Section 18

TRANSPORTATION

This section presents statistics relating to public roads, motor vehicles, bicycles, traffic accidents, local public transit, civil aviation, harbors, and water traffic. Other information bearing on transportation appears in Sections 7, 12, 14, and 24.

Motor vehicle registration in Hawaii increased from 535,000 in 1976 to 772,000 in 1986. Vehicle miles rose during the same period from 4.3 billion to 7.0 billion. Hawaii residents purchased 58,000 new passenger cars and 10,000 trucks in 1986. By the end of that year, 612,000 licensed drivers had access to 4,040 miles of streets and highways throughout the State. Bus passengers carried by the Honolulu Mass Transit Lines increased from 65 million in 1976 to 74 million in 1986. Registered bicycles numbered 94,000 in 1986.

Most scheduled interisland travel is by air. In 1986, airlines and air taxis reported 8.3 million interisland passengers, some 42 percent more than in 1976, and carried 57,000 tons of cargo. The State has 8 commercial airports, 13 general aviation, military or semi-private airports, 10 civilian heliports, 3,300 active pilots, and about 350 active civil aircraft in general aviation.

Rapid growth is similarly evident in transpacific air travel. Although surface passenger arrivals dropped from 54,000 in 1959 to 828 in 1986, air arrivals increased during the same 27-year span from 224,000 to 6.0 million. Overseas cargo received in the State in 1984 amounted to 77,000 tons by air and 9.0 million tons by ship.

Undocumented State-registered vessels as of December 31, 1986 numbered 14,052, compared with about 8,000 in 1970. Median length was 17.4 feet, and four-fifths were stored on land. There were 1,389 documented vessels in the State in 1987, more than double the 1970 total.

The chief source for transportation statistics is the Hawaii State Department of Transportation and its Highways, Harbors and Airports Divisions. Other sources include the U.S. Coast Guard, Federal Aviation Administration, Federal Highway Administration, Army Corps of Engineers, Honolulu Department of Transportation Services and Department of Data Systems, county finance departments, Hawaii Automobile Dealers Association, and individual transportation companies. Data for the entire period of record through 1976 appear in Historical Statistics of Hawaii, Section 17. Similar statistics for other areas are reported in Statistical Abstract of the United States: 1987, Sections 21 and 22.

Table 517.-- HIGHWAY DISTANCES: 1987

Route	Statute miles
HAWAII	
Hilo-Lyman Field	2.0
Hilo-Kalapana	26.1
Hilo-Mauna Kea summit	39.3
Hilo-Mauna Loa summit	52.4
Hilo-Volcano House	30.7
Hilo-Kailua, via Naalehu	125.2
Hilo-Kailua, via Saddle Rd.	84.3
Hilo-Kailua, via Hamakua	91.2
Hilo-Waimea, via Saddle Rd.	57.9
Hilo-Waimea, via Hamakua	55.3
Hilo-Upolu Pt., via Hamakua	83.7
Hilo-Kawaihae, via Hamakua	69.5
Waimea-Hawi	21.4
Waimea-Kawaihae	11.5
Kawaihae-Hawi	18.0
Kawaihae-Kailua	48.4
Kailua-Keahole Airport	6.8
Kailua-Keauhou	6.9
MAUI	
Wailuku-Kahului	2.3
Wailuku-Kahului Airport	4.2
Wailuku-Hana, via Keanae	53.7
Wailuku-Hana, via Kaupo	59.8
Wailuku-Haleakala summit	38.2
Wailuku-Makena	17.6
Wailuku-Lahaina, via Kahakuloa	38.0
Wailuku-Lahaina, via Olowalu	20.9
Kahului-Kihei	7.9
Lahaina-Wailea	32.4
Lahaina-Napili	8.9
Lahaina-Kaanapali	3.7
LANAI	
Lanai City-Lanai Airport	2.7
Lanai City-Hulopoe	8.0
MOLOKAI	
Kaunakakai-Kaluakoi Hotel	19.5
Kaunakakai-Maunaloa	16.5
Kaunakakai-Airport	7.0
Kaunakakai-Halawa	27.6
Airport-Sheraton Hotel	11.5
OAHU 1/	
Honolulu-Ala Moana Center	1.6
Honolulu-UH, via King Street	3.2
Honolulu-Waikiki	3.2
Honolulu-Waimanalo, via Koko Head	21.8
Honolulu-Waimanalo, via Nuuanu	13.3
Honolulu-Kailua, via Nuuanu	11.6
Honolulu-Kaneohe, via Kalihi	10.8
Honolulu-Kahuku, via Kahaluu	36.2
Honolulu-Kahuku, via Wahiawa	46.2
Honolulu-Kaena Pt., via Wahiawa	42.4
Honolulu-Kaena Pt., via Waianae	44.3
Honolulu-Wahiawa	20.5
Honolulu-Pearl Harbor Shipyard	6.5
Honolulu-Honolulu Airport	4.8
Waikiki-UH, via Kapahulu	3.2
Waikiki-Honolulu Airport	8.0
Waimanalo-Kahuku	33.0
KAUAI	
Lihue-Haena	38.0
Lihue-Wailua	5.9
Lihue-Lihue Airport	2.0
Lihue-Poipu	11.9
Lihue-Mana	32.9
Lihue-Kalalau Lookout	44.6
Poipu-Kalalau Lookout	36.8
Poipu-Princeville	40.7

1/ Honolulu distances measured from King and Bishop Streets; Waikiki, from Kalakāua and Lewers.

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 518.-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED: 1923 TO 1986

[Excludes private thoroughfares and military roads not regularly open to public use]

Category	1923	1938	1958	1972	1986
Total mileage ...	1,479	2,040	2,967	3,611	4,040
Paved	565	1,367	2,393	3,117	3,829
Unpaved	914	673	575	494	211

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), p. 429; present report, table 519.

Table 519.-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED, BY ISLANDS: DECEMBER 31, 1986

[Excludes private thoroughfares and military roads not regularly open to public use]

Island	Total mileage	Paved		Unpaved
		Freeways	Other	
State total	4,040.11	94.44	3,734.42	211.25
Hawaii	1,456.23	7.04	1,376.57	72.62
Maui	584.22	3.21	524.31	56.70
Lanai	45.83	-	31.83	14.00
Molokai	125.63	-	113.63	12.00
Oahu	1,439.03	84.19	1,321.40	33.44
Kauai	389.17	-	366.68	22.49
Niihau	-	-	-	-

Source: Hawaii State Department of Transportation, records.

Table 520.-- HIGHWAY BRIDGES, BY ISLANDS: DECEMBER 31, 1986

Island	Number of bridges	Longest bridge		Highest bridge	
		Location	Length (feet)	Location	Height (feet)
State .	1,109	Airport Viaduct .	14,890	Nanue	208
Hawaii	255	Hakalau	775	Nanue	208
Maui	151	Kalialinui	324	Uaoa	79
Lanai	-	None	...	None	...
Molokai	19	Manawainui	325	Manawainui	50
Oahu	609	Airport Viaduct .	14,890	Kipapa	156
Kauai	75	Kalihiwai	798	Wahiawa, Koloa ..	90

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 521.-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 1986

Island and name of tunnel	Length (feet)
Oahu:	
Pali No. 1: Inbound (to Honolulu)	1,000
Outbound (from Honolulu)	1,080
Pali No. 2: Inbound	500
Outbound	497
Wilson: Inbound	2,775
Outbound	2,813
Middle Street	393
Structure No. 8, Waiawa Interchange	300
Maui:	
Olowalu	318
Kauai:	
Kipu-Mahaulepu (private road)	2,200

Source: Hawaii State Department of Transportation, Highways Division, records; McBryde Sugar Plantation, records.

Table 522.-- SIGNALIZED INTERSECTIONS AND METERED PARKING SPACES, BY ISLANDS: DECEMBER 31, 1985

Type of facility	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Signalized intersections	580	38	18	-	-	516	8
Metered on-street parking spaces	3,630	816	-	-	-	2,814	-
Metered off-street parking spaces 1/	3,226	277	68	-	18	2,797	66

1/ Limited to spaces under State or county control. Excludes about 900 spaces on Oahu converted to contract operation.

Source: Compiled by Hawaii State Department of Planning and Economic Development from Hawaii State Department of Accounting and General Services, Hawaii State Department of Transportation, City and County of Honolulu Department of Transportation Services, Hawaii County Department of Public Works, Kauai County Department of Public Works, and Maui County Department of Public Works.

Table 523.-- VEHICLE DENSITIES: 1923 TO 1986

Measure	1923	1938	1958	1972	1986
Motor vehicles per --					
1,000 persons 1/	65.6	151.2	330.9	513.2	654.9
Mile of street or highway	13.3	30.4	68.2	123.6	191.0
Persons per 1/ --					
Motor vehicle	15.2	6.6	3.0	1.9	1.5
Mile of street or highway	202.5	201.0	206.2	240.9	291.6

1/ Based on de facto population after 1938.

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (University Press of Hawaii, 1977), tables 1.4 and 17.2; present report, tables 3, 518, and 524.

Table 524.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1976 TO 1986

[Taxable and non-taxable, including military non-resident exempt vehicles]

Year	All vehicles registered	Motor vehicles			
		All motor vehicles	Passenger vehicles 1/	Ambulances, hearses, patrol wagons	Buses
1976	551,438	535,217	452,616	82	2,624
1977	580,380	563,964	475,368	81	2,888
1978	599,990	583,601	489,878	84	3,052
1979	626,841	610,570	510,353	91	3,267
1980	633,846	617,571	514,669	85	3,366
1981	667,019	649,350	541,932	88	3,577
1982	689,468	671,513	566,060	80	3,863
1983	(NA)	702,854	(NA)	(NA)	(NA)
1984	735,458	717,171	599,845	68	4,034
1985	767,892	749,034	625,823	66	4,189
1986	790,855	771,575	642,636	60	4,158

Year	Motor vehicles -- continued				Trailers and semi-trailers
	Trucks 1/	Truck tractors, tow trucks	Truck crane, misc.	Motor-cycles, motor scooters 2/	
1976	68,215	1,866	680	9,134	16,221
1977	73,762	1,848	609	9,408	16,416
1978	78,447	1,809	560	9,771	16,389
1979	84,578	1,784	511	9,986	16,271
1980	87,542	1,725	488	9,696	16,275
1981	90,954	1,641	458	10,700	17,669
1982	88,410	1,395	388	11,317	17,955
1983	(NA)	(NA)	(NA)	(NA)	(NA)
1984	101,233	1,428	364	10,199	18,287
1985	106,673	1,334	342	10,607	18,858
1986	112,053	1,290	323	11,055	19,280

Footnotes and source on next page.

Table 524.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1976 TO 1986 -- Con.

NA Not available.

1/ Beginning in 1979, vans and other trucks under 6,500 lb. in personal use were legally classified as passenger vehicles, but the data shown here have been adjusted to continue inclusion of such vehicles in the totals for trucks.

2/ Excluding mopeds (1.5 HP or less), which are legally classified as bicycles.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations, provided by the Hawaii State Department of Transportation, Motor Vehicle Safety Office; present report, table 527.

Table 525.-- MOTOR VEHICLES REGISTERED, BY COUNTIES: 1976 TO 1986

[Taxable and non-taxable, including military non-resident exempt vehicles. Includes passenger cars, buses, trucks, and motorcycles but excludes trailers and semi-trailers]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1976	535,217	406,149	57,151	25,300	46,617
1977	563,964	424,892	60,374	26,920	51,778
1978	583,601	436,347	63,025	27,614	56,615
1979	610,570	452,449	67,718	29,492	60,911
1980	617,571	454,316	70,047	30,604	62,604
1981	649,350	476,995	75,812	32,932	63,611
1982	671,513	495,629	77,024	33,931	64,929
1983	702,854	515,002	80,090	35,365	72,397
1984	717,171	525,599	80,840	35,236	75,496
1985	749,034	544,976	85,806	37,659	80,593
1986	771,575	556,935	89,918	40,585	84,137

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations provided by the Hawaii State Department of Transportation, Motor Vehicle Safety Office; present report, table 527.

Table 526.-- PASSENGER VEHICLES REGISTERED, BY COUNTIES: 1976 TO 1986

[Taxable and non-taxable, including military non-resident exempt vehicles. Excludes ambulances, hearses, buses, trucks, motorcycles, and trailers]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1976	452,616	352,148	43,826	19,882	36,760
1977	475,368	367,398	46,072	21,001	40,897
1978	489,878	376,260	47,764	21,411	44,443
1979 1/ ...	510,353	388,788	51,159	22,790	47,616
1980	514,669	389,576	52,682	23,561	48,850
1981	541,932	409,305	57,397	25,363	49,867
1982	566,060	429,244	59,103	26,297	51,416
1983	(NA)	(NA)	(NA)	(NA)	(NA)
1984	599,845	447,872	63,182	27,376	61,415
1985	625,823	460,906	68,602	29,890	66,425
1986	642,636	466,938	73,356	32,853	69,489

NA Not available.

1/ Beginning in 1979, vans and other trucks under 6,500 lb. in personal use were legally classified as passenger vehicles, but the 1979 and subsequent data shown here have been adjusted to continue inclusion of such vehicles in the totals for trucks.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations provided by Hawaii State Department of Transportation, Motor Vehicle Safety Office.

Table 527.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR COUNTIES: 1986 AND 1983

[Taxable and non-taxable, including military non-resident exempt vehicles]

Type of vehicle	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1986					
All vehicles	790,855	567,527	94,270	42,695	86,363
Motor vehicles	771,575	556,935	89,918	40,585	84,137
Passenger vehicles 1/	642,636	466,938	73,356	32,853	69,489
Ambulances 2/	60	46	10	1	3
Buses	4,158	3,281	230	142	505
Trucks 1/	112,053	76,999	14,740	7,117	13,197
Truck tractors 3/	1,290	660	308	124	198
Truck cranes 4/	323	131	84	37	71
Motorcycles 5/	11,055	8,880	1,190	311	674
Trailers and semi-trailers ..	19,280	10,592	4,352	2,110	2,226
1983					
Motor vehicles	702,854	515,002	80,090	35,365	72,397
U-drive	30,442	18,580	2,891	1,478	7,493
All others	672,412	496,422	77,199	33,887	64,904

1/ Vans and other trucks under 6,500 lb. in personal use, legally classified as passenger vehicles, are included in the trucks category.

2/ Including hearses and patrol wagons.

3/ Including tow trucks.

4/ Including miscellaneous vehicles.

5/ Including motorscooters but excluding mopeds (1.5 HP or less), legally classified as bicycles.

Source: 1987 from City and County of Honolulu, Department of Data Systems, unpublished tabulation provided by Hawaii State Department of Transportation, Motor Vehicle Safety Office; 1983 from Applied Analysis, Inc., *Estimating Annual Vehicle-miles Traveled (VMT) in the State of Hawaii* (August 1987), and records.

Table 528.-- AUTOMOBILES, TRUCKS, AND VANS AVAILABLE TO OCCUPIED HOUSING UNITS, BY COUNTIES: 1980

Number of vehicles available	The State	Hawaii	Honolulu	Kalawao	Kauai	Maui
Occupied units	294,052	29,237	230,214	71	12,020	22,510
None	30,509	2,463	25,628	8	788	1,622
1	115,357	9,193	95,735	18	3,209	7,202
2	94,699	10,775	71,456	25	4,440	8,003
3 or more	53,487	6,806	37,395	20	3,583	5,683

Source: U.S. Bureau of the Census, 1980 Census of Housing, Detailed Housing Characteristics, Hawaii, HC80-1-B13 (May 1983), tables 61 and 94.

Table 529.-- TAXABLE VEHICLES, BY TYPE AND EMPTY WEIGHT: 1986

Empty weight	Passenger vehicles	Buses	Trucks 1/	Truck tractors, tow trucks	Motorcycles	Trailer
All taxable vehicles	582,478	3,016	39,598	813	6,176	13,300
Under 2,000 lb.	48,856	1	19	-	6,169	10,219
2,000 to 2,999 lb.	311,412	50	9,286	7	4	449
3,000 to 3,999 lb.	174,084	86	11,379	9	1	159
4,000 to 4,999 lb.	44,473	795	9,196	10	2	170
5,000 to 5,999 lb.	3,099	961	2,370	12	-	204
6,000 to 9,999 lb.	345	341	3,455	126	-	927
10,000 lb. and over	209	782	3,893	649	-	1,172
Median weight (lb.)	2,778	5,599	3,922	14,233	<2,000	<2,000

1/ Vans and other trucks under 6,500 lb. in personal use are classified as passenger vehicles.

Source: Hawaii State Department of Transportation, Highways Division, printouts from Honolulu Department of Data Systems; medians calculated by Hawaii State Department of Planning and Economic Development.

Table 530.-- TRUCK CHARACTERISTICS: 1972, 1977, AND 1982

[Percent]

Vehicular and operational characteristics	1972	1977	1982 1/
Major use: Personal transportation	37.6	50.0	54.3
Body type: Pickup, panel, multistop, or walk-in .	73.5	86.4	89.6
Vehicle size: Light	71.6	89.0	92.9
Annual miles: Less than 10,000	59.8	54.1	59.7
Year model: Over 4 years old	59.3	68.1	75.8
Vehicle acquisition: Purchased new	55.9	54.6	47.3
Fleet size: 1 truck	53.4	64.0	72.3
Truck type: Single-unit, 2 axles	91.2	95.7	96.6
Range of operation: Local	84.6	87.3	78.2
Fuel type: Diesel and LPG	6.2	4.6	3.7

1/ There were 120,000 trucks in Hawaii in 1982, which traveled 1,071,700,000 truck miles, or 8,900 per truck.

Source: U.S. Bureau of the Census, 1982 Census of Transportation, Truck Inventory and Use Survey, Hawaii, TC82-T-12 (June 1985), tables 1 and 2.

Table 531.-- NEW PASSENGER CARS AND MOTOR TRUCKS REGISTERED: 1981 TO 1986

Year	Total	Passenger cars	Motor trucks
1981	46,995	39,188	7,807
1982	44,489	37,137	7,352
1983	52,927	42,772	10,155
1984	63,625	48,791	14,834
1985	67,875	51,330	16,545
1986	68,060	49,680	18,380

Source: R.L. Polk and Co., cited in Motor Vehicle Manufacturers Association of the United States, Inc., MVMA Motor Vehicle Facts and Figures (annual).

Table 532.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, BY COUNTIES: 1985 AND 1986

Year	State total	Hono-lulu	Maui	Hawaii	Kauai
1985	68,676	50,058	8,095	7,660	2,863
1986	68,379	48,497	8,535	7,896	3,451

Source: Hawaii Automobile Dealers' Association, HADA Yearbook '87, p. 6.

Table 533.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, BY MAKE, 1986, AND RANK, 1984 TO 1986

Make	New registrations, 1986			Rank		
	Total	Passenger cars	Trucks	1984	1985	1986
All makes ..	68,379	58,336	10,043	...	...	...
Toyota	11,597	9,855	1,742	2	1	1
Nissan	10,053	9,035	1,018	1	2	2
Ford	7,110	5,019	2,091	3	4	3
Chevrolet	6,322	5,091	1,231	4	3	4
Honda	6,017	6,017	-	5	5	5
Mazda	3,525	2,643	882	6	6	6
Dodge	3,398	2,552	846	7	7	7
Oldsmobile	1,924	1,924	-	9	8	8
Buick	1,710	1,710	-	8	9	9
Suzuki	1,657	1,514	143	21	17	10
All others 1/ ...	15,066	12,976	2,090	...	...	...

1/ For details, see source.

Source: Hawaii Automobile Dealers Association, HADA Yearbook '87, p. 12.

Table 534.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, BY PLACE OF MANUFACTURE: 1985 AND 1986

[Percent distributions]

Place of manufacture 1/	All types		Passenger cars		Trucks	
	1985	1986	1985	1986	1985	1986
Total ...	100.0	100.0	100.0	100.0	100.0	100.0
Imports:						
Japanese ...	54.4	53.2	54.9	54.3	51.6	45.3
European ...	3.0	1.0	3.5	2.2	0.6	0.1
Domestics	41.5	45.6	40.8	42.7	45.7	51.3
Unclassified 2/	1.1	0.2	0.8	0.8	2.2	3.3

1/ Japanese cars sold in the U.S. with U.S. nameplates are classified as domestic. Cars assembled in the U.S. with Japanese nameplates are classified as imports. Volkswagen is classified as domestic.

2/ AMC (except Jeep), Jaguar, Rolls-Royce, and other cars with small market share in Hawaii.

Source: Hawaii Automobile Dealers' Association, HADA Yearbook '87, p. 13, as corrected.

Table 535.-- HAWAII DRIVERS LICENSES IN FORCE, BY COUNTIES: 1976 TO 1986

[As of December 31]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1976	541,180	429,559	49,184	22,662	39,775
1977	541,353	424,242	51,773	23,557	41,781
1978	541,263	420,005	53,504	24,381	43,373
1979	543,202	418,751	53,735	25,606	45,110
1980	541,842	411,102	57,780	26,333	46,627
1981	541,279	407,062	60,171	27,261	46,785
1982	561,345	419,468	63,610	28,446	49,821
1983	574,533	428,897	64,560	29,169	51,907
1984	582,218	434,053	65,778	28,801	53,586
1985	593,952	441,278	68,177	29,188	55,309
1986	612,101	453,220	70,493	30,374	58,014

Source: Tabulations by City and County of Honolulu, Department of Data Systems, provided by Hawaii State Department of Transportation, Motor Vehicle Safety Office.

Table 536.-- HAWAII DRIVERS LICENSES IN FORCE, BY AGE AND SEX: DECEMBER 31, 1986

Age	Both sexes	Male	Female
Total	612,101	334,433	277,668
15 to 19 years	36,567	21,215	15,352
20 to 24 years	65,275	35,112	30,163
25 to 34 years	161,316	84,169	77,147
35 to 44 years	138,312	72,997	65,315
45 to 54 years	80,478	43,116	37,362
55 to 64 years	74,649	41,472	33,177
65 to 74 years	42,999	27,205	15,794
75 to 84 years	11,772	8,573	3,199
85 years and over	733	574	159
Median age (years)	38.1	38.7	37.5

Source: Tabulation by City and County of Honolulu, Department of Data Systems, provided by Hawaii State Department of Transportation, Motor Vehicle Safety Office.

Table 537.-- TOTAL 24-HOUR TRAFFIC VOLUMES AT SELECTED OAHU SURVEY SITES: 1983 TO 1986

Site	1983	1984	1985	1986
Pali Highway at tunnels	47,753	46,812	47,835	49,242
Likelike Highway at tunnels	44,644	43,840	48,501	47,452
H-1 Freeway at Manoa-Palolo Drainage Canal (includes ramps)	101,817	110,712	118,028	122,603
H-1 Freeway at Kapalama Drainage Canal Bridge	174,308	164,969	172,655	193,962
Nimitz Highway at Kapalama Drainage Canal Bridge	(NA)	55,312	62,410	63,626
Kalanianaole Highway east of Ainakoa Ave.	69,939	73,941	79,830	75,852

NA Not available.

Source: Hawaii State Department of Transportation, Highways Division, Planning Branch, records.

Table 538.-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES: 1976 TO 1986

Year and county	Highway fuel consumption 1/		Vehicle miles of travel	
	Total (1,000 gallons)	Gallons per vehicle 2/	Total (millions)	Per vehicle 2/
1976	308,151	574	4,314.1	8,041
1977	324,449	578	4,542.3	8,088
1978	338,440	583	4,738.2	8,164
1979	339,989	560	4,759.9	7,834
1980	330,734	536	5,570.0	9,019
1981	319,588	492	5,855.7	9,018
1982	323,827	482	6,048.3	9,007
1983	327,769	(NA)	(NA)	(NA)
1984	339,491	473	6,486.3	9,044
1985	345,672	461	6,761.5	9,027
1986	357,716	464	6,970.7	9,034
COUNTIES: 1986				
Honolulu	252,138	456	4,882.9	8,825
Hawaii	46,815	513	892.7	9,776
Kauai	19,383	460	435.9	10,341
Maui	39,380	464	759.2	8,951

NA Not available.

1/ Includes gasoline, gasohol, diesel oil, and butane gas. Gasohol was no longer used in motor vehicles after June 1982.

2/ Based on motor vehicle total by county of inspection; includes both taxable and nontaxable vehicles, and all military nonresident exempt vehicles. Data include passenger cars, buses, trucks, and motorcycles but exclude trailers and semi-trailers.

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 539.-- COMMUTING: 1980

Commuting characteristics	State total	Oahu	Other islands
MEANS OF TRANSPORTATION TO WORK			
Workers 16 years and over	457,717	369,523	88,194
Private vehicle	359,207	282,479	76,728
Drive alone: Car	225,767	179,823	45,944
Truck or van	27,401	15,904	11,497
Carpool: Car	93,203	78,997	14,206
Truck or van	12,836	7,755	5,081
Public transportation	38,100	37,042	1,058
Bus or streetcar	37,362	36,447	915
Subway, elevated train, or railroad	38	38	-
Taxicab	700	557	143
Bicycle	5,021	4,679	342
Motorcycle	2,979	2,740	239
Walked only	37,112	31,069	6,043
Other means	6,445	5,134	1,311
Worked at home	8,853	6,380	2,473
PRIVATE VEHICLE OCCUPANCY			
Workers 16 and over using private vehicles	359,207	282,479	76,728
Drive alone	253,168	195,727	57,441
In 2-person carpool	72,188	59,311	12,877
In 3-person carpool	19,417	16,642	2,775
In 4-person carpool	7,828	6,373	1,455
In 5-or-more-person carpool	6,606	4,426	2,180
Persons per private vehicle	1.20	1.21	1.17
TRAVEL TIME TO WORK			
Workers 16 and over who did not work at home	448,492	362,086	86,406
Less than 10 minutes	76,444	51,687	24,757
10 to 19 minutes	145,010	113,454	31,556
20 to 29 minutes	89,345	76,166	13,179
30 to 44 minutes	87,941	77,414	10,527
45 or more minutes	49,752	43,365	6,387
Mean ... minutes	21.5	22.6	17.2

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 65.

Table 540.-- SELECTED POPULATION CHARACTERISTICS, BY MEANS OF TRANSPORTATION TO WORK: 1980

Means of transportation to work	Age (percent)		Females (percent)	High-school graduates 1/ (percent)	Median household income 2/ (dollars)	Owner occupants 2/ (percent)
	25 to 64 years	65 years and over				
Workers 16 and over	74.6	2.3	40.6	83.3	27,649	58.1
Private vehicle	79.0	2.0	39.9	84.9	28,830	62.0
Drive alone:						
Car	79.1	2.1	39.2	87.0	28,527	61.5
Truck or van	87.5	1.7	8.7	77.8	27,683	66.8
Carpool:						
Car	76.8	1.7	53.6	83.7	30,376	62.9
Truck or van	75.0	1.7	22.4	72.4	26,204	53.8
Public transportation	64.6	3.4	63.9	71.9	23,894	45.0
Bus	64.7	3.4	64.0	71.6	24,024	46.0
Taxi or other	60.8	3.9	62.7	81.8	20,000	21.7
Bicycle	64.2	-	10.2	93.5	16,939	20.4
Motorcycle	59.6	-	2.7	95.4	19,239	22.7
Walked only	49.5	3.0	32.1	73.3	19,748	32.6
Other means	61.5	2.8	25.0	83.6	20,987	39.8
Worked at home	66.5	9.7	40.8	80.2	26,719	56.8

1/ Persons 25 years and over.

2/ For persons in households.

Source: U.S. Bureau of the Census, Census of Population and Housing, 1980, Public Use Microdata Sample A -- 5 Percent (Hawaii), special tabulation by Hawaii State Data Center.

Table 541.-- HIGHWAY SPEEDS, BY TYPE OF HIGHWAY: 1981 TO 1986

[Years ended September 30]

Measurement and year	State-wide	Urban inter-state	Rural		
			Inter-state	Other arter-ials	Major collec-tors
AVERAGE SPEEDS (MILES PER HOUR)					
1981	53.0	54.0	55.1	51.1	52.8
1982	54.1	56.6	56.2	51.5	52.4
1983	54.0	56.7	56.5	51.6	51.8
1984	54.7	56.8	56.8	52.4	53.1
1985	54.8	56.9	58.0	52.3	53.0
1986	55.1	58.4	(NA)	51.4	52.6
1985					
Miles per hour:					
Median speed	55.1	57.3	58.7	52.7	53.1
85th percentile speed ..	61.8	63.8	65.2	59.4	60.8
Percent exceeding --					
55 miles per hour	43.4	58.4	67.4	29.0	19.1
60 miles per hour	18.8	26.3	34.9	10.5	8.5
65 miles per hour	6.5	8.5	11.5	3.8	5.3
1986					
Miles per hour:					
Median speed	55.4	58.9	(NA)	51.6	52.8
85th percentile speed ..	62.5	65.8	(NA)	59.1	59.0
Percent exceeding --					
55 miles per hour	49.5	67.9	(NA)	31.8	26.3
60 miles per hour	23.1	37.3	(NA)	8.7	7.8
65 miles per hour	8.6	14.1	(NA)	3.0	2.7

NA Not available.

Source: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics (annual).

Table 542.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS: 1976 TO 1986

Year	Major traffic accidents 1/		Persons injured or killed	
	Total	Fatal	Injured only	Killed
1976	14,860	137	11,667	149
1977	16,188	139	12,245	154
1978	18,545	175	13,327	195
1979	19,158	183	13,963	205
1980	18,301	165	13,026	185
1981	16,582	136	11,999	150
1982	16,407	143	11,865	161
1983	16,372	131	11,852	139
1984	17,657	127	12,390	136
1985	19,577	118	12,613	126
1986	20,726	108	10,915	117
COUNTIES: 1986				
Honolulu	15,871	60	7,647	67
Hawaii	2,441	21	1,751	23
Kauai	895	11	523	11
Maui	1,519	16	994	16

1/ Traffic accidents with damage of $300 or more or causing injury or death.

Source: Hawaii State Department of Transportation, Highways Division, Major Traffic Accidents, State of Hawaii (annual) and records.

Table 543.-- REGISTERED TAXICABS AND BICYCLES, BY ISLANDS: 1985 AND 1986

[As of December 31]

Island	Taxicabs		Bicycles	
	1985	1986	1985	1986
State total	1/ 1,722	1,618	85,041	93,873
Hawaii	90	90	2,487	2,980
Maui	123	123	2,832	2,572
Lanai	2	2	149	215
Molokai	-	-	256	268
Oahu	1/ 1,458	1,366	2/ 75,400	2/ 84,228
Kauai	49	37	3,917	3,610

1/ Revised from Data Book 1986, table 517.

2/ Excludes mopeds (10,144 in 1985 and 10,398 in 1986).

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the County Departments of Finance.

Table 544.-- MOTOR CARRIER CHARACTERISTICS, BY COUNTIES: JUNE 1987

County	Passenger carriers 1/			Property carriers 2/	
	Number of carriers	Number of vehicles	Seating capacity	Number of carriers	Number of vehicles
State total	1,031	4,843	131,417	2,779	16,343
Hawaii	74	527	20,456	509	2,911
Maui	142	802	21,718	370	1,914
Honolulu	756	3,138	77,934	1,710	10,483
Kauai	59	376	11,309	190	1,035

1/ Includes mostly tour bus operators; excludes public transit (such as MTL, Inc.), school buses, taxicabs, and rental car companies.

2/ Includes truckers, moving companies, etc.

Source: Compiled by Hawaii State Department of Transportation, Motor Vehicle Safety Office, from Hawaii State Department of Regulatory Agencies, Public Utilities Commission.

Table 545.-- STEAM RAILROAD MILEAGE AND PASSENGERS: 1979 TO 1986

[Data are for the Lahaina, Kaanapali and Pacific Rail Road, the only passenger railroad in the State]

Calendar year	Miles of track	Passengers 1/	Calendar year	Miles of track	Passengers 1/
1979	6	103,105	1983 ...	6	171,892
1980	6	111,699	1984 ...	6	197,876
1981	6	128,178	1985 ...	6	199,759
1982	6	155,059	1986 ...	6	215,735

1/ Data for 1979-1984 revised from Data Book 1985, table 493.

Source: Lahaina, Kaanapali and Pacific Rail Road, data submitted February 7, 1987.

Table 546.-- BUS PASSENGERS, BY FARE CATEGORY, FOR OAHU: 1984 TO 1986

[Calendar year data for City and County of Honolulu bus system]

Fare category	1984	1985	1986
All passengers	76,260,187	74,816,485	74,410,104
Adults, full fare	41,846,716	41,997,746	42,296,391
Students	13,548,302	12,717,660	12,185,244
School subsidy	342,857	350,346	368,135
Stadium express	20,320	10,173	10,861
Senior citizens and handicapped	14,381,117	14,207,457	14,151,242
Chartered service	8,930	12,981	17,261
Free transfers	6,111,945	5,520,122	5,380,970

Source: MTL, Inc., data provided by the City and County of Honolulu, Department of Transportation Services.

Table 547.-- BUS SERVICE, FOR OAHU: 1970 TO 1986

[Service provided by Honolulu Rapid Transit Co., Ltd., through December 31, 1970 and by City and County of Honolulu beginning March 1, 1971]

Year	Number of buses, Dec. 31	Bus mileage 1/	Total passengers 2/	Revenues 3/ (dollars)
1970 4/	141	4,611,357	30,434,906	4,970,000
1971 5/	108	2,986,724	19,413,259	1,246,351
1972	143	4,964,044	31,031,764	4,445,817
1973	315	7,973,393	36,741,009	5,254,908
1974	333	11,670,774	50,519,626	6,807,147
1975	350	13,328,501	58,295,732	7,990,505
1976	350	15,547,127	64,585,334	9,007,134
1977	350	16,242,537	66,311,882	9,629,349
1978	350	15,991,798	67,746,396	9,686,876
1979	350	15,915,000	68,765,000	9,931,000
1980	400	16,579,392	71,601,744	17,388,760
1981	400	16,748,338	73,546,802	17,991,735
1982	400	16,767,816	74,109,528	18,269,144
1983	395	16,654,568	75,051,618	18,157,876
1984	440	16,774,564	76,260,187	18,819,782
1985	440	16,938,692	74,816,485	18,952,566
1986	459	17,065,875	74,410,104	18,802,330

1/ All categories of service through 1978 and revenue vehicle miles (estimated) thereafter. Calendar year data.

2/ All categories of service through 1978 and revenue passengers (including senior citizens and handicapped) as estimated thereafter. Calendar year data.

3/ Calendar year 1970; 4-month period ended June 30, 1971; fiscal years ended June 30, 1972 to 1979; calendar years, 1980 forward. The fiscal year figure for 1980 was $14,817,639.

4/ Passenger total excludes 2,277,502 zone fares.

5/ Bus service by HRT was terminated by a strike that began January 1. The City and County of Honolulu commenced service March 1.

Source: HRT, Ltd., data provided by Hawaii State Department of Regulatory Agencies, Public Utilities Division; MTL, Inc., data provided by the City and County of Honolulu, Department of Transportation Services.

Table 548.-- BUS FARE CHRONOLOGY, FOR OAHU: 1961 TO 1987

[In dollars. Service was provided by Honolulu Rapid Transit, Ltd., from August 31, 1901 until December 31, 1970, and by the City and County of Honolulu beginning March 1, 1971. For earlier data, see The State of Hawaii Data Book 1978, table 305, pp. 273-274]

Effective date	Cash fares 1/		Tickets		Monthly passes	
	Adult	School	Adult	School	Adult	School
May 29, 1961	.25	.15	5/1.00	5/.50	...	...
March 1, 1971	.25	.15	...	...	...	...
March 2, 1971	.25	.10	...	...	...	...
June 9, 1972 2/ ...	.25, .50	.10, .25	...	...	...	...
March 15, 1974	.25	.10	...	...	...	...
November 1, 1979 ..	.50	.25	...	...	15.00	7.50
June 18, 1984 3/ ..	.60	.25	...	...	15.00	7.50

1/ In addition, there have been special fares for children, handicapped persons, senior citizens, service to and from Pearl Harbor, and the Stadium Express during many of these years.

2/ Zone fares initiated.

3/ Current fares (August 28, 1987).

Source: Honolulu Rapid Transit Co., Ltd., records; City and County of Honolulu, Department of Transportation Services, records.

Table 549.-- PASSENGER CAR RENTAL AND LEASING (SIC 7512) ESTABLISHMENTS WITH PAYROLL, BY COUNTIES: 1982 AND 1985

Year	State total	Honolulu	Hawaii	Kauai	Maui
1982	79	39	14	10	16
1985	88	37	19	10	22

Source: U.S. Bureau of the Census, County Business Patterns, Hawaii (annual).

Table 550.-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS: DECEMBER 31, 1987

Island	Airports 1/				Heliports 2/	
	State					
	Com-mercial	General aviation	Military	Semi-private	State: commercial	Semi-private
State total	7	7	6	2	1	9
Hawaii 3/	2	2	1	-	-	4
Maui 4/	1	1	-	1	-	2
Kahoolawe	-	-	-	-	-	-
Lanai	1	-	-	-	-	-
Molokai	1	1	-	-	-	-
Oahu	1	2	3	-	1	-
Kauai	1	1	1	1	-	3
Niihau	-	-	-	-	-	-
Kure Atoll	-	-	1	-	-	-

1/ Excludes private airports (not available).

2/ Excludes military and private heliports (not available).

3/ Waimea-Kohala Airport reclassified from commercial to general aviation during 1987.

4/ West Maui Airport opened during 1987.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 551.-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS: 1976 TO 1986

[An aircraft operation is an aircraft arrival or departure]

Year	Honolulu International Airport	General Lyman Field, Hilo	Keahole Airport	Kahului Airport	Lihue Airport
1976	320,565	52,982	58,425	90,455	58,865
1977	329,926	60,377	83,616	100,655	65,636
1978	379,106	52,677	91,033	125,291	74,583
1979	412,739	51,703	92,235	127,477	71,033
1980	375,408	49,969	66,944	111,573	62,829
1981	339,359	53,274	57,488	102,760	59,404
1982	308,728	47,964	51,889	112,428	65,305
1983	333,038	54,470	66,581	124,288	71,739
1984	343,818	62,543	83,320	142,311	100,992
1985	357,511	61,225	93,879	157,231	131,755
1986	368,049	61,514	81,467	174,560	143,905

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 552.-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE OWNED AIRPORTS: 1986

Airport	All movements	Air carrier	Air taxi	General aviation	Military
Honolulu International ..	368,049	191,890	69,918	78,985	27,256
Gen. Lyman	61,514	17,965	5,587	18,776	19,186
Kahului	174,560	78,820	56,361	30,338	9,041
Lihue	143,905	41,750	82,244	11,622	8,289
Keahole	81,467	30,265	20,679	17,360	13,163
Molokai	52,268	5,471	35,913	8,267	2,617

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 553.-- CIVIL FLYING: 1982 TO 1985

Item	1982	1983	1984	1985
Aircraft facilities, Dec. 31	49	51	51	50
Airports	36	37	37	36
Heliports	13	14	14	14
Public aircraft facilities, Dec. 31 ...	18	14	14	16
Paved and lighted facilities, Dec. 31 .	11	12	12	12
Aircraft in operation, Dec.	28	32	38	49
Aloha Airlines, Inc. 1/	8	8	9	8
Hawaiian Airlines, Inc. 1/	12	13	18	21
Mid Pacific Airlines, Inc.	8	11	11	20
General aviation: 2/				
Active civil aircraft, Dec.	426	381	463	348
Standard error	158	152	143	109
Hours flown (1,000)	86	97	206	137
Standard error (1,000)	34	34	95	56
Active personnel, Dec. 31:				
Pilots, except instructors	3,327	3,224	3,187	3,256
Flight instructors	291	260	303	267
Nonpilot airmen 3/	3,118	3,099	3,191	2,498

1/ Large aircraft only.

2/ Aircraft based in Hawaii. Data based on samples with specified standard errors.

3/ Mechanics, parachute riggers, ground instructors, dispatchers, control tower operators, flight navigators, and flight engineers.

Source: U.S. Department of Transportation, Federal Aviation Administration, FAA Statistical Handbook of Aviation (annual).

Table 554.-- HELICOPTER TOURS: 1977 TO 1987

Subject	1977	1982	1985	1987
Companies	9	14	25	36
Aircraft	15	26	48	71

Source: Hawaii Helicopter Operators Association, records.

Table 555.-- TRANSPACIFIC AND INTERISLAND AIR CARRIERS SERVING HAWAII: 1984 TO 1987

[As of June 30. Includes both scheduled and nonscheduled services]

Service	1984 1/	1985 1/	1986 1/	1987 2/
All air carriers 3/	31	32	32	33
Transpacific	29	30	30	27
Domestic	16	17	18	14
Foreign	13	13	12	13
Interisland	4	4	4	8
Passenger carriers	3	3	3	8
Cargo and mail only	1	1	1	-

1/ Excludes commuter lines and other air taxi service.

2/ Includes commuter lines and other air taxi service (5 interisland carriers).

3/ Unduplicated totals. Two carriers provided both transpacific and interisland service in all four years.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 556.-- AIR CARGO AND AIRMAIL: 1981 TO 1986

[In thousands of pounds]

Calendar year	Overseas air cargo		Overseas airmail		Interisland	
	Out-going	In-coming	Out-going	In-coming	Air cargo: incoming	Airmail: incoming
1981	151,513	101,301	22,388	19,887	132,559	14,131
1982	155,278	105,388	21,280	25,006	114,038	15,014
1983	174,582	136,354	23,620	28,288	109,828	16,024
1984	196,215	153,654	23,356	29,497	111,472	16,282
1985	180,470	150,295	21,657	22,119	101,700	16,072
1986	200,255	184,894	22,842	23,725	114,657	16,913

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 557.-- TRANSPACIFIC AND INTERISLAND AIR PASSENGER MOVEMENTS: 1970 TO 1986

[Calendar years. Data include both revenue and non-revenue passengers]

Year	Transpacific passengers			Inter-island passenger arrivals 1/
	Arrivals	Departures	Through	
1970 ..	2,190,809	2,158,577	893,890	2,992,777
1971 ..	2,296,119	2,304,570	729,237	3,380,031
1972 ..	2,540,472	2,550,199	733,362	4,093,338
1973 ..	2,866,003	2,913,446	870,378	4,809,097
1974 ..	3,009,769	2,964,992	885,122	5,174,914
1975 ..	3,181,580	3,134,774	956,576	5,321,616
1976 ..	3,496,645	3,432,908	816,915	5,873,138
1977 ..	3,667,756	3,615,717	714,150	6,413,847
1978 ..	4,131,466	4,054,544	854,276	7,341,815
1979 ..	4,245,032	4,148,645	971,452	7,578,877
1980 ..	4,270,633	4,174,739	1,118,987	6,737,894
1981 ..	4,290,752	4,292,159	1,032,264	6,724,113
1982 ..	4,669,747	4,641,716	882,832	7,327,447
1983 ..	4,760,459	4,714,689	777,490	7,037,687
1984 ..	5,263,213	5,261,373	727,947	7,632,239
1985 ..	5,317,862	5,293,528	858,501	7,878,598
1986 ..	6,041,078	6,083,508	841,241	8,340,048

1/ Air taxi service was seriously underreported before 1977.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 558.-- CHARACTERISTICS OF INTRA-HAWAII CERTIFICATED ROUTE AIRLINES: 1984 AND 1985

[Data for Aloha Airlines, Inc., Hawaiian Airlines, Inc., and Mid Pacific Airlines, Inc.]

Subject	1984	1985
Number of airlines	3	3
Aircraft revenue departures 1/ (1,000)	119.9	121.5
Aircraft revenue miles 1/ (1,000)	15,143	17,490
Average airborne speed 1/ (miles per hour)	261	284
Average available seats per aircraft mile flown 1/	110.9	138.7
Revenue passengers: 1/		
Enplanements (1,000)	6,706	6,876
Load factor (percent)	57.4	59.4
Revenue ton-miles (1,000): 2/		
Freight	8,516	5,802
Mail	2,949	1,847
Number of employees 3/	1,810	2,731
Operating revenues 4/ ($1,000)	223,250	251,521
Operating profit or loss 4/ ($1,000)	3,782	2,919
Average passenger revenues per revenue passenger-mile 4/ (cents)	22.5	14.8
Average freight revenues per revenue ton-mile 4/ (dollars)	2.64	1.66

1/ Scheduled service only.
2/ Scheduled service only; excludes Mid Pacific.
3/ Weighted average for year; excludes Mid Pacific for 1984.
4/ Excludes Mid Pacific.

Source: U.S. Department of Transportation, Research and Special Programs Administration, Office of Aviation Information Management. Aloha Airlines, Inc. and Hawaiian Airlines, Inc. from Department of Transportation (DOT) Form 41. Mid Pacific Airlines, Inc. traffic data from DOT Form 298C.

Table 559.-- PASSENGERS, CARGO, AND MAIL, BY AIRPORT: 1986

Airport	Passengers 1/		Cargo (tons)		Mail (tons)	
	Enplaned	Deplaned	Enplaned	Deplaned	Enplaned	Deplaned
OVERSEAS						
Total	6,083,508	6,041,078	100,128	92,447	11,421	11,863
Honolulu	5,490,360	5,384,490	98,053	87,748	11,248	11,862
General Lyman ...	10,610	10,304	517	137	103	-
Kahului	478,557	521,232	1,070	4,082	70	1
Keahole	73,410	85,686	455	417	-	-
Lihue	30,571	39,366	33	63	-	-
INTERISLAND						
Total	8,340,048	8,340,048	57,329	57,329	8,456	8,456
Honolulu	3,659,556	3,700,748	36,833	17,967	4,842	3,513
General Lyman ...	541,564	565,647	11,966	9,202	1,126	1,253
Upolu	438	436	-	-	-	-
Waimea-Kohala ...	9,585	9,649	4	13	-	-
Keahole	779,328	752,918	2,859	5,104	631	917
Kahului	1,876,065	1,853,476	3,046	16,423	1,187	1,836
Hana	8,769	8,469	-	-	-	-
Kaanapali 2/	3,986	3,672	-	-	-	-
Molokai	164,262	165,913	219	250	50	8
Kalaupapa	3,568	3,497	1	40	-	-
Lanai	24,917	25,286	3	14	4	-
Lihue	1,244,608	1,226,544	2,398	8,315	616	929
Other airports 3/	23,402	23,793	-	1	-	-

1/ Revenue and non-revenue, excluding Military Airlift Command (MAC). Also excludes overseas passengers in transit (841,241, all through Honolulu International Airport).

2/ Closed January 1986.

3/ Princeville and Waikoloa.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 560.-- AIRLINE PASSENGER ORIGINS AND DESTINATIONS: 1985

[Year ended December 31, 1985. Top city pairs originating or terminating passengers and revenue passenger-miles, ranked by passengers. Data limited to domestic operations in scheduled service. Figures are combined totals in both directions]

City pair in both directions 1/ (in order of passenger rank)	Inter-city distance (miles)	Passengers		Passenger-miles	
		U.S. rank	Number (1,000)	U.S. rank	Number (1,000)
Honolulu-Kahului	100	17	1,121	394	112,536
Honolulu-Los Angeles	2,568	24	966	3	2,487,530
Honolulu-Lihue	102	37	762	552	79,555
Honolulu-San Francisco	2,399	52	587	13	1,423,559
Honolulu-Kona	169	83	465	539	81,344
Honolulu-Chicago	4,251	129	309	30	791,997
Honolulu-New York	4,971	167	258	15	1,296,430
Honolulu-Seattle	2,678	294	155	65	443,976
Honolulu-Las Vegas	2,762	341	132	87	372,013
Honolulu-Boston	5,095	592	75	80	389,575
Honolulu-Washington	4,828	599	74	91	363,517

1/ Includes all cities in Hawaii included in top 100 U.S. city pairs, as ranked either by number of passengers or number of passenger-miles.

Source: U.S. Department of Transportation, Research and Special Programs Administration, records.

Table 561.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR FLIGHTS BY UNITED AIRLINES BETWEEN SAN FRANCISCO AND HONOLULU: 1980 TO 1987

[Updated to September 23, 1987]

Effective date of change in fare	Regular one-way fares, including taxes (dollars)			Flight time 1/ (hours, min.)
	First class	Coach, weekend	Coach weekday	
1980: Jan. 1	302.12	209.08	199.08	5:02
June 1	319.13	221.09	211.08	5:02
Aug. 1	351.14	243.10	233.09	5:02
Oct. 1	365.11	252.08	252.08	5:02
1981: Jan. 20 ...	384.12	265.08	265.08	5:02
Mar. 31 ...	415.12	286.09	286.09	5:02
June 17 ...	425.13	296.09	296.09	5:02
Oct. 1	392.12	280.08	280.08	5:00
1982: Mar. 1	412.12	219.07	219.07	5:00
Apr. 1	412.12	310.09	310.09	5:00
June 1	412.12	328.10	328.10	5:00
Sept. 1 ...	415.16	331.13	331.13	5:00
1983: June 15 ...	415.16	353.14	353.14	5:00
1984: Sept.	415.00	353.14	353.14	5:00
Oct.	415.00	353.00	353.00	5:02
Dec.	454.00	364.00	364.00	5:02
1986: Nov. 14 ...	576.00	459.00	459.00	5:03
1987: Apr. 11 ...	588.00	469.00	469.00	5:00
June 5	598.00	479.00	479.00	5:00
June 30 ...	605.00	486.00	486.00	5:00
Aug. 7	613.00	494.00	494.00	5:00

1/ Average scheduled flight time eastbound and westbound, by B-747 or DC-10 aircraft. Flight time varies seasonally.

Source: United Airlines, records.

Table 562.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES, BY TYPE OF AIRCRAFT: 1982 TO 1987

[Updated to September 15, 1987]

Effective date of change in fare	Honolulu-Lihue		Honolulu-Kahului		Honolulu-Hilo	
	DC-9 1/	DASH-7	DC-9 1/	DASH-7	DC-9 1/	DASH-7
FARES 2/						
1982: May 1	46.00	46.00	46.00	46.00	56.00	56.00
June 1	48.00	48.00	48.00	48.00	58.00	58.00
Aug. 1	53.00	53.00	53.00	53.00	63.00	63.00
Sept. 1	54.50	54.50	54.50	54.50	65.00	65.00
1983: Feb. 1	45.00	45.00	45.00	45.00	45.00	45.00
July 1	49.95	49.95	49.95	49.95	49.95	49.95
Oct. 30	49.95	29.95	49.95	29.95	49.95	29.95
Dec. 16	49.95	41.95	49.95	41.95	49.95	41.95
Dec. 22	49.95	33.95	49.95	33.95	49.95	33.95
1984: Jan. 20	49.95	41.95	49.95	41.95	49.95	41.95
May 28	49.95	43.95	49.95	43.95	49.95	43.95
Nov. 15	52.95	46.95	52.95	46.95	52.95	46.95
Dec. 16	52.95	37.95	52.95	37.95	52.95	37.95
1985: Jan. 7	52.95	34.95	52.95	34.95	52.95	34.95
Mar. 11	52.95	36.95	52.95	36.95	52.95	36.95
Apr. 28	52.95	38.95	52.95	38.95	52.95	38.95
July 1	44.95	37.95	44.95	37.95	44.95	37.95
Aug. 1	46.95	38.95	46.95	38.95	46.95	38.95
1987: Mar. 1	48.95	46.95	48.95	46.95	48.95	46.95
FLIGHT TIMES 3/						
1982-1984	26	34	27	34	40	60
1985-1987	25	33	26	33	40	58

1/ DC-9-50 and DC-9-80 from May 1981 through 1985; DC-9-15, DC-9-50, and DC-9-80 thereafter.

2/ Total regular one-way fare, including taxes and other charges, in dollars.

3/ Average non-stop scheduled flight time eastbound and westbound, in minutes.

Source: Hawaiian Airlines, records.

Table 563.-- STATE COMMERCIAL HARBORS: 1987

Island and harbor	Harbor entrance depth (feet)	Harbor basin			Piers (linear feet)	Storage area (1,000 square feet)	
		Depth (feet)	Length (feet)	Width (feet)		Shedded	Open
Hawaii:							
Hilo	35	35	2,300	1,400	2,787	122	446
Kawaihae	40	35	1,500	1,450	1,012	23	166
Maui:							
Kahului	35	35	2,400	2,050	3,010	124	586
Molokai:							
Kaunakakai	23	23	1,500	600	691	10	123
Oahu:							
Honolulu:							
Main	45	40	3,300	1,520	28,007	1,779	7,596
Kapalama		40	3,400	1,000			
Barbers Point .	42	38	2,100	1,800	-	-	-
Kauai:							
Nawiliwili	40	35	1,950	1,540	1,216	66	247
Port Allen	35	35	1,500	1,200	1,200	35	32

Source: Hawaii State Department of Transportation, Harbors Division, unpublished data, December 16, 1987.

Table 564.-- UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1986

Subject	Number	Subject	Number
Certificates outstanding	14,052	Type of vessel:	
		Cabin motorboat	2,017
Length:		Open motorboat	5,119
Under 16 feet	5,641	Runabout	2,811
16 to less than 20 feet	4,062	Sail/inboard	637
20 to less than 40 feet	4,119	Sail/outboard	661
Over 40 feet	205	Sail only	1,158
Dealers, manufacturers	25	Motor vessel over 65 feet	5
Median (feet)	17.4	Other	1,644
Hull material:		Uses:	
Wood	1,767	Pleasure	12,032
Fiberglass	10,674	Commercial fishing	1,201
Metal	497	Charter fishing	19
Inflatable	826	Commercial passenger	204
Other	263	Other commercial	60
		Livery	202
Propulsion:		Dealer or manufacturer	65
Inboard	976	Youth group	29
Outboard	8,136	Government	176
Inboard/outboard	2,093	Other	64
Sail/inboard	609		
Sail/outboard	617	Island kept:	
Sail only	1,169	Hawaii	2,038
Other	427	Kauai	1,169
		Lanai	48
Type of storage:		Maui	1,272
On water	2,613	Molokai	189
On land	11,439	Oahu	9,336

Source: Hawaii State Department of Transportation, Harbors Division, Report of Undocumented Vessel Registration (annual).

Table 565.-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN HAWAII: 1982 TO 1987

Category	1982	1983	1984	1985	1986	1987
Documented 1/	1,225	1,300	1,203	1,306	1,348	1,389
Numbered 2/	12,999	12,604	13,122	13,443	14,052	...

1/ Vessels documented under the laws of the United States with the U.S. Coast Guard in Hawaii. All vessels over five net tons, used for commercial purposes, must be documented. In addition, yachts over five net tons may be documented. The data for 1982 and 1983 are Coast Guard estimates. All data as of June 30.

2/ Non-documented numbered vessels registered with the Hawaii State Department of Transportation. Any mechanically propelled boat (including those with auxiliary engines), and any boat powered solely by sail if over eight feet in length, must be numbered. All data as of December 31.

Source: U.S. Coast Guard, Marine Safety Office, records; Hawaii State Department of Transportation, Report of Undocumented Vessel Registration (annual).

Table 566.-- BOATING ACCIDENTS: 1984 TO 1986

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage ($1,000)
	Total	Fatal	Killed	Injured non-fatally		
1984	42	6	8	9	52	304.8
1985	41	2	5	10	50	417.3
1986	54	3	3	14	69	293.0

Source: U.S. Department of Transportation, Coast Guard, Boating Statistics (annual).

Table 567.-- VESSELS ARRIVING AT SPECIFIED HARBORS: 1985

[Excludes domestic fishing craft]

Harbor	Total inbound vessels	By type of vessel					By draft	
		Self propelled vessels			Non-self propelled vessels			
		Passenger and dry cargo	Tanker	Towboat or tugboat	Dry cargo	Tanker	18 feet and less	19 feet and more
Hilo	748	64	1	274	347	62	722	26
Kawaihae	444	9	-	142	287	6	431	13
Kahului	1,085	58	5	388	563	71	988	97
Kaunakakai	685	-	-	293	384	8	(1/)	(1/)
Kalaupapa	5	-	-	1	4	-	5	-
Honolulu	8,604	4,472	34	1,743	2,010	345	7,893	711
Barbers Point	398	2	79	237	35	45	319	79
Nawiliwili	677	25	-	211	409	32	670	7
Port Allen	12	-	1	8	2	1	(1/)	(1/)

1/ Not available. All vessels were 22 feet and less.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1985, Part 4 (1987), pp. 108-109.

Table 568.-- SHIP ARRIVALS AT THE PORT OF HONOLULU: 1976 TO 1986

[Years ended June 30]

Year	Overseas vessels		Interisland vessels	
	Number	Gross tonnage	Number	Gross tonnage
1976	1,386	11,700,000	2,733	2,064,320
1977	1,589	12,568,896	2,700	2,249,446
1978	1,651	12,676,469	1,981	1,947,893
1979	1,757	12,101,936	2,875	2,838,609
1980	1,963	10,483,989	2,338	2,572,778
1981	1,968	10,959,161	2,597	2,670,405
1982	1,943	9,604,985	2,496	2,598,632
1983	1,775	10,406,544	2,662	2,623,321
1984	1,686	10,397,905	2,660	3,649,085
1985	1,749	9,398,179	2,412	4,480,660
1986	1,825	9,450,373	2,697	4,913,219

Source: Hawaii State Department of Transportation, Harbors Division, unpublished data, November 10, 1986.

Table 569.-- OVERSEAS AND INTERISLAND PASSENGER ARRIVALS AND DEPARTURES, FOR HONOLULU HARBOR: 1982 TO 1987

[Fiscal years ended June 30]

Type of passenger	1982	1983	1984	1985	1986	1987
Overseas:						
In	7,150	9,559	9,492	5,337	6,537	8,681
Out	7,033	9,679	5,906	5,276	6,190	8,103
Interisland:						
In	26,553	35,529	58,571	72,665	84,943	71,049
Out	27,584	33,638	59,293	74,304	82,895	69,337

Source: Hawaii State Department of Transportation, Harbors Division, records.

Table 570.-- TRANSPACIFIC AND INTERISLAND SURFACE REVENUE PASSENGERS: 1981 TO 1986

Year	Transpacific passengers 1/			Inter-island passenger arrivals 2/
	Disembarking	Embarking	Intransit	
1981	614	510	9,847	33,108
1982	542	461	6,785	39,057
1983	741	740	8,419	56,073
1984	726	361	6,692	78,443
1985	1,360	1,479	3,249	69,864
1986	828	370	6,189	80,127

1/ Data refer to years ended June 30 through 1983 and calendar years thereafter. Data limited to the Port of Honolulu.

2/ Calendar year statistics. Data exclude interisland travel by transpacific cruise ships.

Source: TheoDavies Marine Agencies, records, and American Hawaii Cruises, records.

Table 571.-- OVERSEAS AND INTERISLAND SHIPPING: 1979 TO 1984

[In short tons]

Calendar year	Overseas cargo			Interisland cargo		
	Total	In	Out	Total	In	Out
1979 ...	11,823,885	9,255,026	2,568,859	5,631,539	2,917,854	2,713,685
1980 ...	11,666,648	9,395,453	2,271,195	5,745,346	2,965,962	2,779,384
1981 ...	11,683,330	9,389,458	2,293,872	7,230,395	3,691,297	3,539,098
1982 ...	10,503,229	8,168,339	2,334,890	7,204,456	3,697,785	3,506,671
1983 ...	11,853,502	9,371,317	2,482,185	8,337,860	4,285,416	4,052,444
1984 ...	11,506,043	8,972,870	2,533,173	8,973,092	4,530,456	4,442,636

Source: Hawaii State Department of Transportation, Harbors Division, unpublished data, November 10, 1986.

Table 572.-- FREIGHT AND PASSENGER TRAFFIC FOR SPECIFIED HARBORS: 1975 TO 1985

Subject and year	Hilo	Kawaihae	Kahului	Honolulu 1/	Barbers Point	Nawiliwili
FREIGHT TRAFFIC 2/ (SHORT TONS)						
1975	1,053,879	279,687	1,109,485	7,935,183	5,185,659	532,978
1976	995,544	263,562	1,276,424	7,189,538	6,593,497	460,900
1977	1,013,430	318,197	1,301,095	6,881,556	6,630,994	557,798
1978	1,272,734	502,451	1,922,112	7,750,537	6,306,580	765,877
1979	1,220,438	447,521	1,473,307	7,463,663	6,154,541	757,899
1980	1,102,019	518,116	1,441,524	7,646,270	5,725,722	785,212
1981	1,441,590	432,704	1,551,944	8,269,671	5,589,741	906,595
1982	1,381,996	441,130	1,483,955	7,593,097	5,707,386	808,153
1983	1,522,442	441,458	1,842,568	8,039,850	7,051,230	1,008,699
1984	1,570,528	545,508	1,889,204	8,469,971	6,564,687	944,770
1985	1,318,518	526,639	1,516,509	7,986,131	6,751,709	933,477
PASSENGERS 3/						
1975	13,613	-	11,296	1,073,125	-	13,934
1976	1,313	-	1,307	1,390,524	-	40,674
1977	8,381	-	8,390	303,291	3,504	70,063
1978	3,207	-	3,879	183,721	4,441	6,384
1979	-	-	-	311,899	-	-
1980	-	-	-	547,242	-	-
1981	-	-	-	521,624	-	-
1982	-	-	-	465,466	-	-
1983	-	-	-	688,689	-	-
1984	-	-	-	741,922	-	-
1985	-	-	-	1,102,398	-	-

1/ For discussion of the accuracy of these data, see the Data Book 1982, table 441.

2/ Excludes cargo carried by Army and Navy vessels and cargo in transit.

3/ Total arrivals and departures for transpacific, interisland, and local travel.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1985, Part 4 (1987), pp. 31-36.

Table 573.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1985

[In short tons. Commodities under 150,000 tons not shown separately]

Harbor and commodity	Total 1/	Foreign		Interstate		Interisland	
		Imports	Exports	Receipts	Shipments	Receipts	Shipments
Hilo	1,318,518	44,993	15,016	19,012	178,230	682,401	378,866
Sugar	178,309	-	-	-	178,230	79	-
Fabricated metal products	328,461	-	-	-	-	158,374	170,087
Kawaihae	526,639	-	-	-	154,988	225,575	146,076
Sugar	154,988	-	-	-	154,988	-	-
Kahului	1,516,509	50,579	17,217	1,658	201,416	812,332	433,307
Sugar	203,106	-	4	-	201,416	-	1,686
Fabricated metal products	296,796	871	-	-	-	185,407	110,518
Motor vehicles, parts, equipment	166,603	1,148	-	-	-	114,837	50,618
Barbers Point	6,751,709	2,900,638	689,350	2,977,134	54,025	14,910	115,652
Crude petroleum	4,931,582	2,695,255	-	2,236,327	-	-	-
Residual fuel oil	1,507,685	130,281	641,601	645,837	37,888	14,910	37,168
Honolulu	7,986,133	721,505	130,162	2,364,983	871,978	1,464,204	2,313,332
Fresh fruits	261,901	1,272	227	15,008	78,420	165,409	1,565
Crude petroleum	520,650	260,498	-	260,152	-	-	-
Vegetables and preparations, canned	180,006	3,366	137	86,167	5,850	60,338	24,148
Prep. fruit, veg. juice	351,436	2,808	4,386	6,390	227,266	109,806	780
Sugar	160,982	-	613	871	157,772	1,664	62
Molasses	370,180	-	-	-	212,942	157,238	-
Alcoholic beverages	160,390	5,740	746	121,924	432	45	31,503
Misc. food products	252,909	4,791	2,948	31,999	3,292	107,695	102,184
Lumber	192,437	1,154	1,520	169,457	1,121	1,883	17,302
Gasoline	229,445	23,856	-	-	9,566	-	196,023

Continued on next page.

Table 573.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1985 - Con.

[In short tons. Commodities under 150,000 tons not shown separately]

Harbor and commodity	Total 1/	Foreign		Interstate		Interisland	
		Imports	Exports	Receipts	Shipments	Receipts	Shipments
Honolulu - Con.							
Residual fuel oil	192,889	-	-	-	-	28,508	44,412
Fabricated metal products	1,070,231	6,359	455	54,669	1,777	450,780	556,191
Motor vehicles, parts, equipment	631,053	49,521	185	76,511	31,078	118,328	355,430
Nawiliwili	933,477	10,016	2	8,176	218,453	444,579	252,251
Sugar	218,458	-	-	-	218,453	5	-
Fabricated metal products	243,702	-	-	-	-	125,697	118,005
Hana	-	-	-	-	-	-	-
Pearl	(NA)	(NA)	(NA)	-	17,490	1,444	41,976
Kalaupapa	1,590	-	-	-	-	1,263	327
Kaunakakai	154,325	-	-	-	-	97,149	57,176
Port Allen	18,580	(NA)	(NA)	-	-	11,454	-
Kaumalapau	(NA)	(NA)	(NA)	-	-	80,802	144,698

NA Not available.

1/ Includes internal receipts and local traffic, not separately shown. Internal receipts amounted to 49,753 tons, all residual fuel oil at Honolulu. Local traffic amounted to 70,216 tons, also all residual fuel oil at Honolulu.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1985, Part 4 (May 1987), pp. 31-38, and unpublished printouts.

Section 19

AGRICULTURE

This section presents statistics on agricultural land, farms, crops, livestock, dairy products, poultry, and aquaculture. Related information appears in Sections 2 (on nutrition), 6 (on land use), 12 and 15 (agricultural employment and earnings), and 22 (food processing).

There were 4,600 farms in Hawaii in 1986, with a total area of 1.95 million acres. The value of crop sales in 1986 was $481 million, or 81 percent higher than the total for 1976. Livestock sales amounted to $83 million, or 34 percent more than the 1976 level. Combined crop and livestock sales in 1986 ranged from $66 million in Kauai County to $188 million on the Big Island. Major crops were sugar ($234 million in sales, up 42 percent over the decade), pineapple ($100 million, or 88 percent over the 1976 total), flowers and nursery products ($49 million, or 315 percent more than in 1976), and macadamia nuts ($35 million, up 402 percent). Diversified crops, defined as all crops other than sugar and pineapple, rose from $48 million in 1976 to $148 million in 1986, or approximately 209 percent. About 590 farms sold $49 million of flowers and nursery products in 1986, chiefly anthuriums, potted foliage, and orchids. Important products of livestock farms as of 1986 included cattle ($25 million in sales), milk ($31 million), and eggs ($13 million). In 1986, Hawaii produced 36 percent of the fresh market vegetables consumed locally, 28 percent of the fresh market fruits, 32 percent of the beef and veal, 19 percent of the chickens, and 86 percent of the eggs.

Aquaculture has been growing in importance in recent years, with an aggregate value rising from $1,655,000 in 1980 to $3.55 million in 1986. Freshwater prawn production amounted to 163,000 pounds in 1986, with a value of $812,000.

Statistics on Hawaiian agriculture exclude pakalōlō (marijuana) and other illicit plants. Authorities confiscated $1.05 billion worth of marijuana in 1986, but the proportion escaping detection is unknown.

Important sources for data on agriculture include the United States Census of Agriculture, most recently published for 1982, the annual report on Statistics of Hawaiian Agriculture issued by the Hawaii Agricultural Statistics Service, and data compiled by the Hawaiian Sugar Planters' Association and the Aquaculture Development Program of the Department of Land and Natural Resources. Agricultural data for earlier years are summarized in Historical Statistics of Hawaii, Section 13. National statistics appear in Section 23 of the Statistical Abstract of the United States: 1987.

Table 574.-- FARMS, LAND IN FARMS, AND LAND USE: 1982 AND 1978

Subject		1982	1978
Farms	number	4,595	4,310
Land in farms	acres	1,957,501	1,988,282
Average size of farm	acres	426	461
Value of land and buildings:			
Average per farm	dollars	778,471	413,948
Average per acre	dollars	1,826	897
Farms by size:			
1 to 9 acres		2,743	2,527
10 to 49 acres		1,261	1,211
50 to 179 acres		320	296
180 to 499 acres		126	146
500 to 999 acres		33	24
1,000 to 1,999 acres		33	32
2,000 acres or more		79	74
Land in farms according to use:			
Total cropland	farms	3,836	3,565
	acres	346,113	333,262
Harvested cropland	farms	3,538	3,299
	acres	155,960	158,639
Cropland used only for pasture or grazing	farms	400	272
	acres	33,557	27,191
Other cropland	farms	855	1,089
	acres	156,596	147,432
Woodland, including woodland pastured	farms	148	146
	acres	117,270	145,802
Pastureland and rangeland other than cropland and woodland pastured	farms	743	611
	acres	1,132,849	1,143,095
Land in house lots, ponds, roads, wasteland, etc.	farms	2,227	1,859
	acres	361,269	366,123
Irrigated land	farms	1,544	1,493
	acres	145,982	159,323

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data, AC82-A-11 (September 1984), Chapter 1, tables 1 and 4.

Table 575.-- CHARACTERISTICS OF FARM OPERATORS: 1982 AND 1978

Subject		1982	1978
Farms by type of organization:			
Individual or family	number	3,852	3,614
	acres	481,212	656,332
Partnership	number	351	326
	acres	130,761	222,668
Corporation:			
Family held	number	272	233
	acres	507,280	377,595
Other than family held	number	80	93
	acres	492,941	595,644
Other -- cooperative, estate or trust, institutional, etc.	number	40	44
	acres	345,307	136,043
Tenure of operator:			
Full owners	farms	2,332	2,111
	acres	328,728	281,019
Part owners	farms	794	713
	acres	1,286,352	1,388,319
Owned land in farms	acres	537,945	603,654
Rented land in farms	acres	748,407	784,665
Tenants	farms	1,469	1,486
	acres	342,421	318,944
Operators by principal occupation and residence:			
Farming 1/		2,565	2,239
Residence on farm operated		1,629	1,287
Residence not on farm operated		657	516
Other than farming 1/		2,030	2,071
Residence on farm operated		1,043	890
Residence not on farm operated		779	660
Average age of operators		52.7	52.7
Female operators:			
Farms	number	615	579
Land in farms	acres	129,674	132,173

Continued on next page.

Table 575.-- CHARACTERISTICS OF FARM OPERATORS: 1982 AND 1978 -- Con.

Subject	1982	1978
Operators reporting days of work off farm:		
Any	2,534	2,495
100 days or more	2,024	1,878

1/ Components do not sum to category total because of non-reporting.

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Preliminary Report, Hawaii, AC82-A-15-000(P) (January 1984), table 2, and 1982 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data, AC82-A-11 (September 1984), Chapter 1, tables 5 and 46.

Table 576.-- MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD, BY COUNTIES: 1982 AND 1978

Year	State total	Hawaii	Honolulu	Kauai	Maui
Total sales ($1,000):					
1982	558,608	206,427	144,028	70,957	137,196
1978	419,251	148,399	118,608	48,679	103,564
Sales per farm (dollars):					
1982	121,569	81,302	147,570	173,066	204,771
1978	97,274	65,490	112,639	131,920	166,502

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data, AC82-A-11 (September 1984), Chapter 2, table 3.

Table 577.-- FARMS, LAND IN FARMS, AND LAND USE, FOR COUNTIES: 1982

Subject		Hawaii	Hono-lulu	Kauai	Maui 1/
Farms	number	2,539	976	410	670
Land in farms	acres	1,172,448	125,932	255,981	403,140
Average size of farm	acres	462	129	624	602
Value of land and buildings:					
Average per farm	dollars	639,822	389,732	1,833,704	1,225,224
Average per acre	dollars	1,385	3,017	2,930	2,036
Farms by size:					
1 to 9 acres		1,468	768	191	316
10 to 49 acres		746	141	136	238
50 to 179 acres		178	27	51	64
180 to 499 acres		68	17	16	25
500 to 999 acres		21	8	1	3
1,000 to 1,999 acres		13	8	7	5
2,000 acres or more		45	7	8	19
Land in farms according to use:					
Total cropland	farms	2,286	757	286	507
	acres	135,796	50,614	51,868	107,835
Harvested cropland	farms	2,123	732	240	443
	acres	59,629	(D)	24,039	(D)
Cropland used only for pasture or grazing	farms	195	32	77	96
	acres	17,438	(D)	2,670	(D)
Other cropland	farms	514	142	78	121
	acres	58,729	22,696	25,159	50,012
Woodland, including woodland pastured	farms	80	22	13	33
	acres	80,103	20,366	1,636	15,165
Pastureland and rangeland other than cropland and woodland pastured	farms	339	84	145	175
	acres	788,077	27,873	108,759	208,140
Land in house lots, ponds, roads, wasteland, etc.	farms	1,109	475	251	392
	acres	168,472	27,079	93,718	72,000
Irrigated land	acres	11,870	36,131	34,414	63,567

D Withheld to avoid disclosing data for individual farms.

1/ Includes Kalawao (no farms in 1982).

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data, AC82-A-11 (September 1984), Chapter 2, tables 1, 2, and 4.

Table 578.-- NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT: 1970 TO 1986

Year	Number of farms 1/	Farm acreage 2/ (1,000)	Farm employment 3/		
			Self-employed farm operators	Unpaid family members	Hired workers
1970	4,500	2,300	3,200	1,450	12,450
1971	4,400	2,300	3,050	1,500	11,810
1972	4,300	2,300	3,050	1,550	11,220
1973	4,300	2,300	3,050	1,550	10,770
1974	3,800	2,200	3,040	1,660	10,180
1975	3,900	2,150	3,060	1,720	11,040
1976	4,000	2,100	2,890	1,560	11,240
1977	4,100	2,050	2,840	1,550	11,300
1978	4,300	1,980	2,890	1,810	11,600
1979	4,300	1,980	3,020	1,520	10,800
1980	4,300	1,970	3,400	1,100	10,550
1981	4,400	1,965	3,100	900	10,500
1982	4,500	1,960	2,600	1,300	13,000
1983	4,500	1,960	2,500	1,500	13,000
1984	4,600	1,950	2,200	1,300	11,800
1985 4/	4,400	1,950	2,200	1,200	10,600
1986	4,200	1,950	2,050	1,200	9,700

1/ Based on farm definition of $600 or more of agricultural sales prior to 1974 and $1,000 or more thereafter.

2/ Includes land not in crop and pasture, such as farm house lots, roads, woodlots, etc.

3/ Annual averages through 1980, and varying dates thereafter.

4/ Revised from Data Book 1986, table 552.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 579.-- VALUE OF CROP AND LIVESTOCK SALES: 1970 TO 1986

[$1,000]

Year	All crops and livestock	Crops				Live-stock
		All crops	Sugar (unpro-cessed cane)	Pine-apples (fresh equiv.)	Other crops	
1970	213,667	172,019	110,600	39,500	21,919	41,648
1971	221,692	178,639	115,800	40,300	22,539	43,053
1972	232,497	186,255	117,300	43,900	25,055	46,242
1973	265,771	210,502	141,900	39,600	29,002	55,269
1974	575,432	517,523	442,300	40,259	34,964	57,909
1975	377,575	319,304	237,000	41,616	40,688	58,271
1976	327,820	265,498	164,700	52,983	47,815	62,322
1977	325,182	260,164	144,200	62,249	53,715	65,018
1978	380,655	308,098	182,700	63,090	62,308	72,557
1979	441,253	362,789	217,600	69,409	75,780	78,464
1980	634,101	552,877	385,100	76,596	91,181	81,224
1981	489,502	401,348	207,500	89,745	104,103	88,154
1982	507,268	428,860	230,800	94,364	103,696	78,408
1983	568,422	481,934	266,900	100,376	114,658	86,488
1984 1/ ...	550,517	463,502	256,200	89,928	117,374	87,015
1985 1/ ...	528,349	445,526	222,400	90,530	132,596	82,823
1986	564,683	481,254	233,800	99,720	147,734	83,429

1/ Revised from Data Book 1986, table 553.
Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 580.-- NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT, BY COUNTIES OR ISLANDS: 1976, 1985, AND 1986

County or island	Number of farms 1/	Farm acreage 2/ (1,000)	Farm employment 3/		
			Self-employed farm operators	Unpaid family members	Hired workers
State total:					
1976	4,000	2,100	2,890	1,560	11,240
1985 4/	4,400	1,950	2,200	1,200	10,600
1986	4,200	1,950	2,050	1,200	9,700
Hawaii County:					
1976	2,300	1,255	1,590	740	3,400
1985 4/	2,550	1,140	1,400	800	3,500
1986	2,425	1,140	1,350	800	3,100
Maui County:					
1976	500	435	330	180	3,370
1985	550	420	250	150	2,950
1986	525	420	200	100	2,800
Oahu:					
1976	900	130	700	530	2,830
1985 4/	925	120	450	250	2,750
1986	900	120	350	250	2,500
Kauai County:					
1976	300	280	260	110	1,630
1985	375	275	150	50	1,300
1986	350	275	150	50	1,250

1/ Based on farm definition of $1,000 or more of agricultural sales.

2/ Includes land not in crops and pasture, such as farm house lots, roads, woodlots, etc.

3/ Data not comparable among years shown due to changes in survey periods; sum of county estimates may not add due to rounding.

4/ Revised from Data Book 1986, table 554.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 581.-- VALUE OF CROP AND LIVESTOCK SALES, BY COUNTIES OR ISLANDS: 1976, 1985, AND 1986

[$1,000]

County and year	All crops and livestock	Crops				Livestock
		All crops	Sugar (unprocessed cane)	Pineapples (fresh equiv.)	Other crops	
State total:						
1976	327,820	265,498	164,700	52,983	47,815	62,322
1985 1/ ...	528,349	445,526	222,400	90,530	132,126	82,823
1986	564,683	481,254	233,800	99,720	147,734	83,429
Hawaii County:						
1976	102,386	86,561	60,800	-	25,761	15,825
1985 1/	171,582	149,460	69,800	-	79,155	22,122
1986	188,017	165,931	74,100	-	91,831	22,086
Maui County:						
1976	87,803	79,374	41,300	30,309	7,765	8,429
1985	131,464	119,249	63,600	36,380	19,309	12,215
1986	144,242	132,536	67,500	45,540	19,496	11,706
Oahu:						
1976	98,457	63,372	28,700	22,674	11,998	35,085
1985	160,678	117,263	35,700	54,150	27,363	43,415
1986	166,689	122,256	38,200	54,180	29,876	44,433
Kauai County:						
1976	39,174	36,191	33,900	-	2,291	2,983
1985 1/	64,625	59,554	53,300	(2/)	6,299	5,071
1986	65,735	60,531	54,000	(2/)	6,531	5,204

1/ Revised from Data Book 1986, table 555.

2/ Less than $50,000.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 582.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES: 1976, 1985, AND 1986

Subject	1976	1985 1/	1986
Acreage in crop (1,000 acres):			
Sugarcane	221.6	187.9	184.3
Pineapples (land used for pineapple)	48.0	34.5	36.0
Vegetables and melons (harvested acreage)	3.6	5.4	5.4
Fruits, excluding pineapples	5.0	6.5	6.8
Coffee	2.4	2.1	2.3
Macadamia nuts	10.3	20.0	21.3
Miscellaneous crops	5.1	8.6	5.1
Number of crop farms:			
Sugar	520	155	120
Pineapples	16	18	18
Vegetables and melons	523	715	750
Fruits (excluding pineapples)	628	805	793
Coffee	780	620	620
Macadamia nuts	455	610	645
Taro	124	155	140
Flowers and nursery products	500	670	590
Volume of crop marketings:			
Sugar, unprocessed cane (1,000 tons)	9,173	7,916	8,379
Pineapples, fresh equivalent (1,000 tons)	680	565	646
Vegetables and melons (1,000 lb.)	63,460	89,620	91,950
Fruits, excluding pineapples (1,000 lb.)	65,620	80,980	90,610
Coffee, parchment (1,000 lb.)	2,120	1,850	2,900
Macadamia nuts, in shell (1,000 lb.)	18,990	42,000	44,000
Taro (1,000 lb.)	7,350	6,860	6,330
Value of crop sales ($1,000):			
Sugar (unprocessed cane)	164,700	222,400	233,800
Pineapples (fresh equivalent)	52,983	90,530	99,720
Vegetables and melons	12,230	30,034	29,877
Fruits (excluding pineapples)	7,966	12,794	16,606
Coffee (parchment)	3,922	5,180	8,700
Macadamia nuts (in shell)	7,007	30,450	35,200
Taro	889	1,578	1,462
Field crops (not estimated separately)	3,843	8,198	6,595
Flowers and nursery products	11,828	44,162	49,094
Forest products	150	(NA)	(NA)

NA Not available.

1/ Revised from Data Book 1986, table 556.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 583.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES, BY GEOGRAPHIC AREAS: 1986

Subject	Hawaii County	Maui County	Oahu	Kauai County
Acreage in crop (1,000 acres):				
Sugarcane	69.1	46.1	25.9	43.2
Pineapples (land used for pineapple)	-	24.0	12.0	(1/)
Vegetables and melons (harvested acreage)	1.9	2.0	1.4	0.1
Fruits, excluding pineapples	5.2	0.1	0.7	0.8
Coffee	2.3	-	-	-
Macadamia nuts	19.4	(D)	(D)	(D)
Miscellaneous crops	2.6	1.3	0.7	0.5
Number of crop farms:				
Sugar	109	3	3	5
Pineapples	-	13	2	3
Vegetables and melons	400	85	217	48
Fruits (excluding pineapples)	531	47	137	78
Coffee	620	-	-	-
Macadamia nuts	630	7	3	5
Taro	65	20	5	50
Flowers and nursery products	275	75	215	25
Volume of crop marketings:				
Sugar, unprocessed cane (1,000 tons)	2,797	2,251	1,354	1,977
Pineapples, fresh equivalent (1,000 tons)	-	415	231	(2/)
Vegetables and melons (1,000 lb.)	33,350	40,580	16,370	1,650
Fruits, excluding pineapples (1,000 lb.)	68,110	1,340	6,560	14,600
Coffee, parchment (1,000 lb.)	2,900	-	-	-
Macadamia nuts, in shell (1,000 lb.)	43,350	(D)	(D)	(D)
Taro (1,000 lb.)	840	(D)	(D)	4,490
Value of crop sales ($1,000):				
Sugar (unprocessed cane)	74,100	67,500	38,200	54,000
Pineapples (fresh equivalent)	-	45,540	54,180	(3/)
Vegetables and melons	11,965	9,788	7,519	605
Fruits (excluding pineapples)	12,381	311	1,802	2,112
Coffee (parchment)	8,700	-	-	-
Macadamia nuts (in shell)	34,680	(D)	(D)	(D)
Taro	236	(D)	(D)	1,010
Field crops (not estimated separately)	909	3,539	499	1,648
Flowers and nursery products	22,775	5,191	19,994	1,134

D Withheld to avoid disclosure of individual operations.
1/ Less than 500 acres.
2/ Less than 500 tons.
3/ Less than $50,000.
Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture 1986, pp. 3, 4, 6, 8, and 9.

Table 584.-- VEGETABLES, MELONS, FRUITS, NUTS, COFFEE, AND TARO: 1986

[Data shown for crops with sales in excess of $500,000]

Crop	Acreage harvested 1/	Yield per acre (1,000 lb.)	Production (1,000 lb.)	Farm price (cents per lb.)	Value of sales ($1,000)
Vegetables and melons:					
Snap beans	130	7.5	980	77.2	757
Chinese cabbage	350	20.6	7,200	14.2	1,022
Mustard Cabbage	140	11.4	1,600	34.1	546
Head cabbage	490	28.6	14,000	15.5	2,170
Celery	100	26.8	2,680	21.5	576
Cucumbers	220	16.9	3,720	31.8	1,183
Daikon	260	15.0	3,900	17.6	686
Eggplant	55	23.6	1,300	49.7	646
Ginger root	145	40.7	5,900	81.0	4,779
Lettuce (head, semi-head)	620	14.0	8,700	27.2	2,366
Dry onions	140	10.6	1,480	73.9	1,094
Green peppers	190	10.8	2,050	43.6	894
Romaine	160	14.4	2,300	25.2	580
Sweet potatoes	210	10.0	2,100	27.1	569
Tomatoes	240	28.0	6,700	41.0	2,747
Watermelons	620	23.1	14,300	12.6	1,802
Green onions	190	7.6	1,440	81.3	1,171
Watercress	30	...	1,300	83.6	1,087
Fruits:					
Bananas	980	9.9	9,700	30.0	2,910
Guavas	690	...	16,560	10.5	1,739
Papayas	2,355	25.9	61,000	18.2	11,123
Macadamia nuts (1986-1987)	14,400	3.1	44,000	80.0	35,200
Coffee (1986-1987)	2,000	1.5	2,900	300.0	8,700
Taro	390	...	6,330	23.1	1,462

1/ Acreage bearing for macadamia nuts; acreage in crop for watercress and taro.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture 1986, pp. 29-68.

Table 585.-- SUGARCANE ACREAGE, BY TYPE OF IRRIGATION: 1972 TO 1986

Year	Total cane land	Irrigated cane land		Unirrigated cane land
		Drip	Furrow or overhead	
1972	229,611	327	119,704	109,580
1973	226,580	2,544	116,136	107,900
1974	224,227	5,662	112,919	105,646
1975	221,426	12,719	103,998	104,709
1976	221,551	21,250	98,797	101,504
1977	220,729	30,042	91,368	99,319
1978	220,697	39,167	80,207	101,323
1979	218,773	49,202	70,936	98,635
1980	217,718	60,241	58,966	98,511
1981	216,099	69,665	48,493	97,941
1982	204,749	73,551	41,896	89,302
1983	194,258	80,019	33,459	80,780
1984	188,396	86.925	26,325	75,146
1985	187,858	89,129	24,323	74,406
1986	180,301	90,884	20,018	69,399

Source: Hawaiian Sugar Planters' Association, Hawaiian Sugar Manual 1985/86 (1986), pp. 10-11; Alexander & Baldwin, Inc., "Water to the Roots," Ampersand, Spring 1987, pp. 3-6.

Table 586.-- FRESH FRUIT AND VEGETABLE ARRIVALS IN HONOLULU, BY SOURCE: 1984 TO 1986

[1,000 pounds, net]

Source	1984	1985	1986
Total arrivals	265,998	275,623	291,212
From Hawaii	102,323	101,080	103,793
Oahu 1/	47,331	44,260	44,582
Other islands 2/	54,992	56,820	59,211
Hawaii 2/	30,488	29,188	27,932
Maui 2/	15,089	15,949	15,512
Molokai 2/	6,268	8,654	13,295
Kauai 2/	3,147	3,029	2,472
From U.S. Mainland 2/	158,368	165,833	179,647
From foreign countries 2/	5,307	8,710	7,772

1/ Wholesalers' truck receipts.
2/ Ship and plane arrivals.
Source: Hawaii State Department of Agriculture, Market News Service, Honolulu Arrivals, Fresh Fruits and Vegetables, 1986 (April 1987), table 1.

Table 587.--FEED INSHIPMENTS FROM ALL SOURCES: 1982 TO 1986

[1,000 tons]

Commodity	1982	1983	1984	1985	1986
Total feed	167.8	193.0	191.6	170.2	141.4
Feed grains	67.5	89.8	88.4	78.4	68.4
Mixed feeds	25.0	24.5	21.8	18.5	14.5
Alfalfa products	26.1	30.2	32.3	24.1	19.5
Protein foods	29.9	26.5	29.6	28.6	25.4
Other feed stuff	19.3	21.9	19.5	20.6	13.6

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture 1986, p. 92.

Table 588.-- LIVESTOCK INVENTORY, 1976, 1985, AND 1986, AND BY GEOGRAPHIC AREAS, 1986

[In thousands]

Year and geographic area	All cattle and calves 1/	Milk cows 2/	Hogs and pigs 3/	Chickens (excluding broilers) 3/	Bee colonies
1976	245	13	60	1,254	7
1985	209	11	55	1,210	9
1986	195	12	50	1,185	9
GEOGRAPHIC AREAS: 1986					
Hawaii County	121.2	1.6	4.9	206	(NA)
Maui	28.5	1.0	9.2	(4/)	(NA)
Molokai and Lanai	-	-	0.7	(4/)	(NA)
Oahu	31.2	8.6	30.4	979	(NA)
Kauai County	14.1	0.5	4.8	(4/)	(NA)

NA Not available.

1/ As of following January 1.

2/ As of January 1.

3/ As of December 1.

4/ Kauai, Maui, and Molokai combined with Hawaii to avoid disclosure of individual operations.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 589.-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES: 1976, 1985, AND 1986

Subject	1976	1985 1/	1986
Number of livestock operations, Dec. 31:			
Cattle 2/	900	850	800
Hogs	640	650	600
Milk	80	90	90
Eggs	70	55	55
Broilers	11	7	8
Honey	22	22	20
Volume of livestock marketings:			
Beef (dressed weight; 1,000 lb.) 3/	32,320	33,764	33,764
Pork (dressed weight; 1,000 lb.)	7,781	7,859	8,643
Milk (million lb.)	145.8	139.8	153.1
Eggs (million)	218	220.5	227.0
Broilers and chickens (1,000 lb.) 4/	6,121	7,706	7,629
Honey (1,000 lb.)	714	1,184	1,323
Value of livestock sales ($1,000):			
Cattle 5/	18,511	26,632	24,645
Hogs 5/	6,670	7,995	8,770
Milk	21,943	28,310	30,605
Eggs	11,808	14,020	13,450
Broilers and chickens	2,977	4,895	4,744
Other 6/	413	971	1,215

1/ Revised from Data Book 1986, table 562.

2/ As of January 1; includes beef, dairy, and dairy replacement farms.

3/ Includes slaughter cattle, but excludes calves shipped out-of-State.

4/ Ready-to-cook weight.

5/ Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

6/ Includes sheep, wool, turkeys, horses, honey, and beeswax.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 590.-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES, BY GEOGRAPHIC AREAS: 1986

Subject	Hawaii County	Maui County	Oahu	Kauai County
Number of livestock operations, Dec. 31:				
Cattle 1/	365	200	75	160
Hogs	80	100	310	110
Milk	41	16	20	13
Eggs	25	7	19	4
Broilers	-	-	7	1
Honey	6	4	3	7
Volume of livestock marketings:				
Beef 2/ (dressed weight; 1,000 lb.)	22,500	8,175	989	2,099
Pork (dressed weight; 1,000 lb.)	748	1,798	5,107	990
Milk (million lb.)	(D)	(D)	116.5	(D)
Eggs (million)	(D)	(D)	189.7	(D)
Broilers and chickens 3/ (1,000 lb.)	(D)	(D)	(D)	(D)
Honey (1,000 lb.)	(D)	(D)	(D)	(D)
Value of livestock sales ($1,000):				
Cattle 4/	16,385	5,926	600	1,734
Hogs 4/	778	1,918	5,005	1,069
Milk	(D)	(D)	23,358	(D)
Eggs	(D)	(D)	11,022	(D)
Broilers and chickens	(D)	(D)	(D)	(D)
Other 5/	846	136	42	191

D Withheld to avoid disclosure of individual operations.

1/ As of January 1; includes beef, dairy, and dairy replacement farms.

2/ Includes slaughter cattle, but excludes calves shipped out-of-State.

3/ Ready-to-cook weight.

4/ Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

5/ Includes sheep, wool, turkeys, horses, honey, and beeswax.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture 1986, pp. 5, 7, and 10.

Table 591.-- FLOWERS AND NURSERY PRODUCTS, 1983 TO 1986, AND BY ISLANDS, 1986

Island and year	Number of farms	Area					Value of sales ($1,000)
		Total (acres)	Green-house (1,000 sq. ft.)	Artificial shade structure (1,000 sq. ft.)	Natural shade area (acres)	Open field (acres)	
State total:							
1983	680	1,786	2,327	26,329	106	1,022	36,165
1984	670	1,715	2,414	26,817	92	959	38,905
1985 1/	670	1,761	2,836	29,643	91	924	44,162
1986	590	(NA)	(NA)	(NA)	(NA)	(NA)	49,094
Islands, 1986: 2/							
Hawaii	275	966	1,439	19,087	82	413	22,775
Kauai	25	37	12	244	5	26	1,134
Maui	75	296	307	1,286	-	259	5,191
Oahu	215	462	1,078	9,026	4	226	19,994

NA Not available.
1/ Revised from Data Book 1986, table 564.
2/ Area data are for 1985.
Source: Hawaii Agricultural Statistics Service, Hawaii Flowers & Nursery Products, Annual Summary (August 6, 1986 and July 24, 1987).

Table 592.-- VALUE OF SALES, TOTAL AND OUT-OF-STATE, FOR FLOWERS AND NURSERY PRODUCTS: 1982 TO 1986

[$1,000]

Subject	1982	1983	1984	1985 1/	1986
Total sales	30,600	36,165	38,905	44,162	49,094
Anthuriums, cut	5,633	6,035	7,351	7,645	9,878
Out-of-State sales	17,909	22,000	21,610	24,284	28,136
Anthuriums, cut	6,370	7,005	7,050	7,581	8,653

1/ Revised from Data Book 1986, table 565.
Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture 1986, pp. 20 and 28.

Table 593.-- FLOWERS AND NURSERY PRODUCTS, BY COMMODITY: 1986

[Shown for commodities with value of sales over $500,000]

Commodity	Number of farms	Number sold		Value of sales ($1,000)
		Unit	Number	
Selected cut flowers:				
Anthuriums	175	1,000 dozens	2,335	9,878
Roses, tea	9	1,000 dozens	548	1,972
Protea	18	1,000 stems	983	656
Chrysanthemums, pompon	14	1,000 bunches	353	547
Orchids:				
Cut: Dendrobium sprays	60	1,000 dozens	314	2,115
Potted: Dendrobiums	52	1,000 pots	235	1,430
Lei flowers:				
Carnations	19	Million blooms	25.3	935
Vanda, Miss Joaquim	21	Million blooms	26.1	899
Tuberose	6	Million blooms	38.0	1,075
Ornamentals and trees	34	...	(NA)	628
Foliage:				
Potted, primarily for --				
Indoor or patio use	73	...	(NA)	12,931
Landscape use	35	...	(NA)	2,215
Unfinished stock (for further growing on)	25	...	(NA)	2,031
Potted flowering plants:				
Chrysanthemums	13	1,000 pots	289	835
Poinsettias	29		204	685

NA Not available.

Source: Hawaii Agricultural Statistics Service, Hawaii Flowers & Nursery Products, Annual Summary (July 24, 1987).

Table 594.-- MARKET SUPPLY OF SPECIFIED FOODS: 1976, 1985, AND 1986

Commodity and year	Total market supply 1/			Per capita market supply 2/	Percent from Hawaii
	Total	Inshipment	Hawaii		
Fresh market fruits:					
1976	69,533	49,779	19,754	71.7	28.4
1985 3/	94,513	68,083	26,430	82.2	28.0
1986	100,253	72,253	28,000	85.1	27.9
Fresh market melons:					
1976	10,801	9,221	1,580	11.1	14.6
1985	21,964	13,164	8,800	19.1	40.1
1986	27,170	12,855	14,315	23.1	52.7
Fresh market vegetables:					
1976	145,178	85,173	60,005	149.6	41.3
1985 3/	201,122	121,602	79,520	174.9	39.5
1986	210,249	134,084	76,165	178.5	36.2
Beef and veal: 4/					
1976	92,573	60,253	32,320	95.4	34.9
1985 3/	105,084	71,156	33,928	91.4	32.3
1986	107,197	73,433	33,764	91.0	31.5
Pork: 4/					
1976	31,072	23,291	7,781	32.0	25.0
1985 3/	37,927	30,068	7,859	33.0	20.7
1986	38,362	29,719	8,643	32.6	22.5
Chickens:					
1976	27,137	21,016	6,121	28.0	22.6
1985	39,011	31,305	7,706	33.9	19.8
1986	39,982	32,353	7,629	33.9	19.1
Eggs:					
1976	19,596	1,396	18,200	20.2	92.9
1985	22,217	3,842	18,375	19.3	82.7
1986	21,983	3,066	18,917	18.7	86.0

1/ Eggs in 1,000 dozens; other foods in 1,000 pounds.

2/ Eggs in dozens; other foods in pounds. Based on de facto population estimates in DBED Statistical Report 201.

3/ Revised from Data Book 1986, table 567.

4/ Carcass weight equivalent.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 595.-- LAND EVALUATION RATING, FOR SIX MAJOR ISLANDS: 1985

[Thousand acres. The Land Evaluation and Site Assessment Commission land evaluation rating is a composite index, scaled from 0 to 100, based on measurements of soil productivity and the suitableness of land for agricultural purposes. Data exclude Kahoolawe, Niihau, Lehua, Kaula, and the Northwestern Hawaiian Islands]

Land evaluation rating	Six-island total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Total area	4,042	2,579	466	90	166	386	355
90 to 100	66	-	17	3	7	39	-
80 to 89	137	17	39	11	16	33	20
70 to 79	189	95	20	2	6	27	40
60 to 69	212	125	36	(Z)	9	22	20
50 to 59	221	113	64	3	10	12	18
40 to 49	309	227	40	6	10	18	7
30 to 39	605	543	29	1	3	11	17
20 to 29	492	282	55	48	50	30	26
10 to 19	1,813	1,176	165	15	55	194	206
Under 10	-	-	-	-	-	-	-
CUMULATIVE							
90 or more	66	-	17	3	7	39	-
80 or more	203	17	56	14	23	72	20
70 or more	392	112	76	15	29	99	61
60 or more	604	237	112	16	38	121	80
50 or more	825	350	176	19	48	133	99
40 or more	1,134	577	216	25	58	151	106
30 or more	1,738	1,121	245	26	61	162	122
20 or more	2,230	1,402	300	75	112	192	149

Z Less than 500 acres.

Source: Land Evaluation and Site Assessment Commission, *A Progress Report of the State of Hawaii Land Evaluation and Site Assessment System to the Thirteenth Legislature, State of Hawaii* (March 1985), p. 29, and *A Report on the State of Hawaii Land Evaluation and Site Assessment System* (February 1986), Exhibit A.

Table 596. -- AGRICULTURAL CHEMICALS USED, INCLUDING FERTILIZER AND LIME: 1982 AND 1978

Chemicals used		1982	1978
Any chemicals, fertilizer, or lime used	farms	3,532	3,568
Commercial fertilizer	farms	3,158	3,172
	acres on which used	228,984	284,452
	$1,000	33,477	26,530
Lime	farms	525	525
	acres on which used	9,547	12,488
	tons	10,423	12,011
Other agricultural chemicals 1/	farms	3,084	3,277
	$1,000	16,417	13,700
Sprays, dusts, granules, fumigants, etc., to control --			
Insects on hay and other crops	farms	1,702	1,204
	acres on which used	45,671	28,787
Nematodes in crops	farms	654	441
	acres on which used	9,638	9,806
Diseases in crops and orchards	farms	1,067	912
	acres on which used	18,085	12,310
Weeds, grass, or brush in crops and pasture	farms	2,385	2,325
	acres on which used	213,551	269,801
Chemicals used for defoliation or for growth control of crops or thinning of fruit	farms	165	160
	acres on which used	50,455	57,280

1/ Data for 1978 include the cost of lime which was not collected in 1982.

Source: U.S. Bureau of the Census, *1982 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data*, AC82-A-11 (September 1984), Chap. 1, table 16.

Table 597.-- FERTILIZER CONSUMPTION BY TYPE: 1982 TO 1985

[In tons. For years ended June 30. This survey was discontinued after 1985]

Year	Total	Mixtures 1/	Direct application materials	
			Primary nutrient 2/	Secondary and micro-nutrient
1982	156,439	100,797	54,627	1,015
1983	138,343	97,360	40,114	869
1984	128,348	83,544	44,108	696
1985	151,955	94,659	56,309	987

1/ Fertilizers having various combinations of primary nutrients.
2/ The primary nutrients are nitrogen, phosphate, and potash.
Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture 1986, p. 95.

Table 598.-- SALES OF AQUACULTURAL PRODUCTS, BY ISLANDS: 1982 AND 1986

Subject	State total		Oahu		Other islands	
	1982	1986	1982	1986	1982	1986
Number of farms	13	20	9	23	4	21
Water surface area (acres) ...	189	444	155	330	34	114
Sales ($1,000)	884	3,549	755	2,798	129	752

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Geographic Area Series, Hawaii, AC82-A-11 (September 1984), Chapter 2, table 21; Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, October 26, 1987.

Table 599.-- NUMBER OF AQUACULTURE INDUSTRY OPERATIONS, BY COUNTIES: 1981 TO 1986

[As of December 31]

County	1981	1982	1983	1984	1985	1986
ALL AQUACULTURE INDUSTRY OPERATIONS						
State total	41	44	42	47	48	44
Hawaii	6	8	8	14	12	12
Maui	6	5	5	5	6	4
Honolulu	24	25	24	23	24	23
Kauai	5	6	5	5	6	5
PRAWN PRODUCERS						
State total	21	22	21	17	20	20
Hawaii	4	4	3	3	5	3
Maui	1	1	1	1	-	1
Honolulu	13	13	13	10	11	13
Kauai	3	4	4	3	4	3

Source: Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, October 26, 1987.

Table 600.-- AQUACULTURE ACREAGE, PRODUCTION, AND VALUE, BY TYPE AND COUNTIES: 1983 TO 1986

Subject and year	State total	Type		County			
		Fresh-water prawns	Other species 1/	Hawaii	Maui	Hono-lulu	Kauai
Acreage: 2/							
1983	496	239	257	34	40	378	44
1984	474	246	228	45	26	369	34
1985	465	219	246	54	43	333	35
1986	444	125	319	43	36	330	35
Production: 3/							
1983	344.9	268.5	76.4	22.9	15.7	274.8	31.5
1984	441.2	317.8	123.4	36.9	26.5	332.2	45.6
1985	582.9	283.3	299.6	33.4	29.5	485.4	34.6
1986	1,014.7	162.7	852.0	50.5	32.8	892.6	38.8
Value: 4/							
1983	1,604.8	1,347.3	257.5	90.8	46.6	1,302.9	164.5
1984	2,299.7	1,706.6	593.1	126.5	97.4	1,831.0	244.8
1985	2,780.5	1,550.6	1,229.9	196.5	134.9	2,255.2	193.9
1986	3,549.4	812.3	2,737.1	398.2	143.2	2,797.6	210.4

1/ Juvenile freshwater prawns, marine shrimp, oysters, brine shrimp, carp and Chinese catfish, catfish, koi, tilapia, tropical fish and aquarium plants, trout, abalone, ogo and microalgae.

2/ As of December 31.

3/ In thousands of pounds. Excludes items not sold by weight: post-larvae, brine shrimp, koi, tropical fish, and aquarium plants.

4/ In thousands of dollars.

Source: Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, October 26, 1987.

Section 20

FORESTS, FISHERIES, AND MINING

This section presents data on forests and forest products, commercial fishing, and mining and mineral products.

The most recent available statistics show 1.2 million acres of forest and water reserve and 948,000 acres of commercial timberland in the State, most of it on the Big Island. Over 46,000 acres had been planted in eucalyptus and other species of trees by mid-1986. Forest products harvested in 1977 had a value of $3.5 million, including $2.3 million from logs for fiber. Forest and brushland fires burned 40 square miles in fiscal 1986.

The commercial fish catch in fiscal year 1986 amounted to 9.5 million pounds and had a value of $19 million. Ahi (yellowfin) and aku (skipjack) accounted for one-third of the total value. Other important species are lobster, opakapaka, mahimahi, and ono. Commercial fishermen numbered 2,880. The charter fishing fleet made 16,700 passenger trips in 1983, chiefly serving visitors. Their average catch per full-day trip was 0.6 fish per patron.

The value of mineral production reached $68 million in 1986, most of it in cement ($24 million) and stone ($42 million). The 1986 total was an all-time high.

Important sources of data on these subjects are the United States Census of Mineral Industries and reports and records of the U.S. Bureau of Mines and Hawaii State Department of Land and Natural Resources, Aquatic Resources Division and Forestry and Wildlife Division. Historical Statistics of Hawaii, Section 14, summarizes the data for earlier periods. Comparable Mainland statistics are reported in the Statistical Abstract of the United States: 1987, Sections 24, 25 and 26.

Table 601.-- FOREST ACREAGE, BY ISLANDS: 1970-1986

Island	Conservation district forest land, 1986		Forest land, 1970		Planted forest, June 30, 1986	
	Forest reserve land 1/	Private forest land 2/	Commercial 3/	Noncommercial 4/	Planted in preceding year	Total standing
State total	840,540	327,845	947,800	1,038,600	463	46,700
Hawaii	585,000	106,745	569,400	583,100	404	18,099
Maui	93,320	53,180	67,500	172,300	52	11,682
Kahoolawe	-	-	-	15,800	-	-
Lanai	-	6,150	4,500	39,400	-	512
Molokai	44,290	-	34,000	44,100	-	3,205
Oahu	29,810	87,920	126,500	78,800	3	7,039
Kauai	88,120	73,850	145,900	74,000	4	6,163
Niihau	-	-	-	31,100	-	-
Other islands ..	-	-	-	-	-	-

1/ State owned and privately owned lands under surrender agreement in forest reserve system as of June 30, 1986.

2/ Private forest land within conservation district as of June 30, 1986. Majority of these lands were previously in the forest reserve system.

3/ Includes federal military, state, miscellaneous corporate, and miscellaneous individual forest land.

4/ Unproductive or productive-reserved.

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, records.

Table 602.-- LAND AREA, BY VEGETATION TYPE AND FOREST RESERVE STATUS, FOR MOLOKAI, OAHU, AND KAUAI: 1986

[In acres. Excludes land in forest plantations]

Vegetation type	Molokai		Oahu		Kauai	
	Total	Forest reserve	Total	Forest reserve	Total	Forest reserve
Total, all types	163,214	44,288	370,002	34,931	347,088	88,127
Tree type:						
Ohia lehua	32,833	30,161	37,563	9,524	109,040	50,702
Koa	-	-	28,548	6,601	13,438	6,223
Kukui	4,773	4,009	2,775	617	7,634	2,029
Kiawe	33,215	-	17,354	241	10,358	116
Eucalyptus	1,527	954	1,131	411	3,157	1,288
Guava	5,918	4,200	10,287	1,421	12,143	3,099
Other trees	2,673	573	36,700	6,776	32,763	6,043
Shrub type	16,417	1,527	33,974	2,965	36,061	7,189
Forb type	191	-	11,338	2,718	4,120	2,043
Grassland	38,751	764	45,102	3,261	34,168	5,198
Cultivated land	18,325	-	55,770	-	64,741	387
No vegetation	3,819	-	822	-	6,709	3,810
Urban and other	4,772	2,100	88,638	396	12,756	-

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, multi-resource inventory reports.

Table 603.-- COMMERCIAL TIMBERLAND OWNERSHIP AND VOLUME OF SAWTIMBER AND GROWING STOCK: 1977

Subject	Amount
Commercial timberland (1,000 acres)	948
Federally owned or managed	12
State or county	442
Private	494
Sawtimber net volume (million board feet)	1,047
Softwood only	17
Growing stock, net volume (million cubic feet)	202
Softwood only	4

Source: U. S. Forest Service study cited in Statistical Abstract of the United States: 1987, p. 655.

Table 604.-- FOREST AND BRUSHLAND FIRES, BY COUNTIES: 1985 AND 1986

[Years ended June 30]

Subject	State total	Counties			
		Hawaii	Maui	Hono-lulu	Kauai
Number of fires:					
1985	218	75	98	32	13
1986	140	73	32	22	13
Acres burned:					
1985	3,657	280	3,073	195	109
1986	25,329	25,246	17	58	8

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, records.

Table 605.-- COMMERCIAL FISHING: 1963 TO 1986

[Years ended June 30]

Year	Number of commercial fishermen	Commercial fish catch 1/		
		Pounds caught	Pounds sold	Value to primary producers (dollars)
1963	808	10,685,604	10,629,701	2,539,189
1964	805	12,013,869	11,970,398	2,732,125
1965	717	17,105,515	17,053,925	3,340,651
1966	715	15,985,626	15,924,854	3,318,803
1967	801	12,344,555	12,274,531	3,146,177
1968	760	12,828,387	12,740,307	3,253,538
1969	1,028	10,065,623	9,974,455	2,798,424
1970	1,264	9,786,726	9,588,319	3,585,166
1971	1,373	15,176,525	14,945,539	4,633,875
1972	1,544	15,577,669	15,246,519	5,536,521
1973	1,677	14,029,491	13,719,284	5,676,783
1974	2,085	13,997,774	13,660,574	6,234,924
1975	1,991	10,801,441	10,404,019	6,242,614
1976	2,283	11,893,141	11,332,659	7,508,395
1977	2,368	15,298,515	14,763,816	9,433,781
1978	2,574	13,672,061	13,139,142	11,115,964
1979	2,447	12,310,524	11,890,241	12,673,328
1980	2,525	10,418,964	9,946,065	10,497,456
1981	2,577	10,890,468	10,465,731	11,828,575
1982	2,525	9,178,789	8,824,348	10,754,276
1983	2,480	7,841,959	7,529,178	10,506,860
1984	2,940	9,819,800	9,344,200	13,556,184
1985	2,638	9,436,591	9,077,357	15,901,656
1986	2,880	9,503,193	9,081,881	18,557,533

1/ Represents the total catches of all licensed commercial fishers. Includes both sea and pond catch, but excludes coral harvests. Particularly for years since 1979, data may be incomplete due to unreported aku (skipjack tuna) boat and flagline boat catches.

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, Commercial Fish Landings for Fiscal Year (annual), as revised, and records.

Table 606.-- COMMERCIAL FISH CATCH, BY SPECIES: 1986

[Year ended June 30, 1986]

Species 1/	Pounds caught	Pounds sold	Value (dollars)
Total catch	9,528,785	9,104,696	18,576,881
Sea catch, all species 2/	9,503,294	9,079,945	18,531,701
Aku (Skipjack)	2,183,960	2,105,930	2,168,048
Ahi (Yellowfin)	2,895,654	2,766,727	4,017,853
Ahi (Bigeye)	265,980	263,372	565,567
Striped marlin	87,345	84,490	111,729
Pacific blue marlin	371,737	341,649	343,930
Mahimahi	400,197	376,504	1,105,089
Ono	415,571	392,074	1,001,127
Hapuupuu	93,201	92,450	154,651
Opakapaka	286,083	274,308	880,311
Uku	69,325	66,045	196,724
Ehu	71,744	68,054	194,058
Onaga	223,447	216,226	790,438
Akule	230,307	216,230	364,594
Opelu	244,515	232,088	399,951
Uu	44,729	42,497	101,652
Lobster	396,960	394,009	3,040,278
Slipper lobster	325,155	321,854	1,811,419
Pond catch, all species	25,491	24,751	45,180

1/ Shown separately for all species over 100,000 lb. or $100,000.

2/ Including species not shown separately.

Source follows next table.

Table 607.-- COMMERCIAL FISH LANDINGS, BY ISLANDS: 1986

[Year ended June 30, 1986]

Island	Pounds caught	Pounds sold	Value (dollars)
State total	9,528,785	9,104,696	18,576,881
Hawaii	2,644,335	2,550,256	3,830,814
Maui	937,785	856,889	1,531,354
Lanai	19,793	16,373	25,280
Molokai	49,677	42,375	103,086
Oahu	4,979,633	4,846,666	11,644,402
Kauai	897,312	791,907	1,441,423
Niihau	250	230	522

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, Commercial Fish Landings for Fiscal Year -- July, 1985 through June, 1986.

Table 608.-- CHARTER FISHING PATRONS, FOR OAHU: 1983

Subject	Amount
Passenger trips by charter fishing fleet	16,700
Residence (percent): Hawaii	17
U.S. Mainland	61
Foreign	22
Average number of Hawaii charter fishing trips in past 5 years:	
By residents	3.5
By visitors	1.2
Average expenditure per passenger trip (dollars):	
By residents	89
By visitors	128
Average catch per full-day trip:	
Per patron	0.6
Per boat	2.5

Source: Karl C. Samples and Donald M. Schug, Charter Fishing Patrons in Hawaii: A Study of Their Demographics, Motivations, Expenditures and Fishing Values. Final Report (National Marine Fisheries Service, Honolulu Laboratory, Administrative Report H-85-8C, May 1985).

Table 609.-- FISH POPULATIONS AROUND SELECTED SHORELINE AREAS: YEAR ENDED JUNE 30, 1986

Location	Species	Abundance (fish per acre)	Estimated standing crop (lb. per acre)
Marine Life Conservation Districts:			
Hanauma Bay, Oahu: Inshore	63	4,080	3,096
Offshore	87	3,220	561
Pupukea, Oahu	74	1,688	157
Molokini Shoal, Maui	90	2,031	824
Honolua-Mokuleia Bays, Maui	93	2,529	570
Manele-Hulopoe Bay	(NA)	2,644	658
Artificial reef:			
Maunalua Bay, Oahu (transect station)	51	1,410	130
Shoreline Fisheries Management Areas:			
Waikiki-Diamond Head, Oahu	(NA)	(NA)	180
Others:			
Barbers Point, Deep-Draft Harbor, Oahu	97	1,432	167
Puamana, Maui 1/	15	270	28
Launiupoko, Maui 1/	3	14	1

NA Not available.
1/ Candidate site for an artificial reef.
Source follows next table.

Table 610.--MOST ABUNDANT FISH SPECIES AT HANAUMA BAY AND MOLOKINI SHOAL: YEAR ENDED JUNE 30, 1986

[Three leading species in each area, based on individuals per acre]

Location and species	Abundance	
	Rank	Fish per acre
Hanauma Bay, inshore:		
Manini (*Acanthurus triostegus*)	1	743
Hinalea lau wili (*Thalassoma duperrey*)	2	379
Aholehole (*Kuhlia sandvicensis*)	3	306
Hanauma Bay, offshore:		
Hinalea lau wili (*Thalassoma duperrey*)	1	393
Maiii (*Acanthurus nigrofuscus*)	2	356
Kole (*Ctenochaetus strigosus*)	3	263
Molokini Shoal:		
Uhu (*Scarus* sp.)	1	281
Oililepa (*Pervagor spilosoma*)	2	277
Kikakapu (*Chaetodon miliaris*)	3	208

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Job Progress Report, Statewide Marine Research and Surveys, Survey of Fish and Habitat, July 1, 1985 to June 30, 1986*.

Table 611.-- MINERAL INDUSTRIES: 1958 TO 1982

[Excluding mines at manufactures]

Subject	1958	1963	1967	1972	1977	1982
Number of establishments 1/......	20	44	12	15	7	12
With 20 employees or more	8	4	3	5	2	4
All employees:						
Number (1,000)	.4	.3	.2	.3	.1	.2
Payroll (million dollars)	1.7	1.7	1.6	2.4	1.9	3.8
Production, development, and exploration workers:						
Number (1,000)	.4	.2	.2	.2	.1	.1
Hours (millions)	.7	.6	.4	.4	.2	.2
Wages (million dollars)	1.4	1.5	1.3	1.8	1.5	2.6
Value added in mining (million dollars)	4.6	4.9	5.0	9.0	8.1	9.7
Cost of supplies used, purchased machinery installed, etc. (million dollars)	2.0	2.1	2.3	4.1	2.9	5.9
Value of shipments and receipts (million dollars)	5.8	6.5	5.5	11.0	9.7	12.8
Capital expenditures (million dollars)	.7	.5	1.8	2.0	1.3	2.7

1/ After 1963, data for single-unit establishments without paid employees were excluded from the census of mineral industries. Eight of the 12 establishments reported, including all 4 with 20 employees or more, were in SIC 142, crushed and broken stone, including riprap.

Source: U.S. Bureau of the Census, 1982 Census of Mineral Industries, Geographic Area Series, Pacific States, MIC82-A-9 (April 1985), tables 1 and 2a.

Table 612.-- NONFUEL MINERAL PRODUCTION SUMMARY: 1976 TO 1986

[Production as measured by mine shipments, sales, or marketable production, including consumption by producers]

Year	Quantity (1,000 short tons)		Value ($1,000)			
	Cement	Stone (crushed)	Total	Cement	Stone (crushed)	Other minerals
1976	339	6,092	42,252	18,410	21,193	2,649
1977	330	5,759	39,980	16,922	19,880	3,178
1978	452	6,027	52,743	26,454	23,840	2,449
1979	481	6,869	63,904	30,423	28,969	4,512
1980	371	6,341	59,676	24,682	30,645	4,349
1981	312	6,036	58,727	23,831	31,407	3,489
1982	233	4,500	46,889	18,676	26,604	1,609
1983	222	5,532	52,411	21,314	29,706	1,391
1984	191	5,400	51,247	19,074	29,700	2,473
1985 1/ ..	221	5,627	53,272	16,638	34,183	2,451
1986 2/ ..	310	7,100	68,422	23,960	42,100	2,362

1/ Revised from Data Book 1986, table 585.
2/ Preliminary.
Source: U.S. Department of the Interior, Bureau of Mines, "The Mineral Industry of Hawaii," Mineral Industry Surveys (annual).

Table 613.-- NONFUEL MINERAL PRODUCTION: 1985 AND 1986

[Production as measured by mine shipments, sales, or marketable production, including consumption by producers]

Mineral	Quantity (1,000 short tons)		Value ($1,000)	
	1985 1/	1986 2/	1985 1/	1986 2/
Total	(X)	(X)	53,272	68,422
Cement:				
Masonry	6	10	588	860
Portland	215	300	16,050	23,100
Sand and gravel (construction)	500	400	2,100	2,100
Stone (crushed)	5,627	7,100	34,183	42,100
Other minerals 3/	(X)	(X)	351	262

X Not applicable.
1/ Revised from Data Book 1986, table 586.
2/ Preliminary.
3/ Gem stones and lime pumice.
Source: U.S. Bureau of Mines, "The Mineral Industry of Hawaii in 1986," Mineral Industry Surveys (January 15, 1987).

Section 21

CONSTRUCTION AND HOUSING

This section presents statistics on construction activity and costs, the size and composition of the housing inventory, occupancy of housing units and office buildings, sales, and residential financing. Related series are included in Sections 6 and 14.

There were 21,000 building permits issued in 1986, with an estimated value of $1.6 billion. The total included $455 million for private residential construction and $266 million for private nonresidential structures. The value of government construction contracts awarded was $425 million. Construction put in place, as indicated by the contracting tax base, totaled $1.4 billion in 1985 and $1.8 billion in 1986. The value of land transfers in 1986 was $5.9 billion. Mortgage loans outstanding at the end of 1984 amounted to $7.6 billion. The August 1987 construction cost index for Honolulu (1967=100) was 382 for single-family residences and 392 for high-rise buildings.

The number of housing units in the State increased from 307,000 in 1977 to 379,000 in 1987. Owner occupied units numbered 125,000 in 1977 and 157,000 in 1987; the latter total included 36,000 on leased land. Condominium units, first authorized in 1961, numbered 98,000 at the end of 1982. Government-owned housing, mostly military and public, accounted for 26,000 units as of 1987. Housing was in short supply throughout most of the past decade: on Oahu, the vacancy rate in May 1986, according to the Federal Home Loan Bank of Seattle, was only 2.3 percent. The average selling price of single-family homes on Oahu during 1986, based on Multiple Listing Service data, was $209,000; for condominium units it was $108,000. The median gross monthly rent for Oahu rose from $141 in 1970 to $413 in 1983, and the median value of owner occupied single-family units increased from $38,400 to $163,400.

The principal sources for these data are the 1970 and 1980 U.S. Censuses of Housing, the 1976, 1979, and 1983 Annual Housing Surveys, postal vacancy surveys issued by the Federal Home Loan Bank of Seattle, various series compiled by State and County agencies (primarily the Hawaii Housing Authority, Hawaii State Department of Business and Economic Development, Department of Commerce and Consumer Affairs, Department of Taxation, and Bureau of Conveyances, and the four county building departments), the construction cost indexes prepared by the First Hawaiian Bank, and the Honolulu Board of Realtors reports on Multiple Listing Service activity. Many of these series are summarized in reports published by the Bank of Hawaii (particularly Construction in Hawaii, issued annually) and the First Hawaiian Bank. Persons interested in figures for earlier periods should consult Historical Statistics of Hawaii, Section 15. Mainland statistics appear in Section 27 of Statistical Abstract of the United States: 1987.

Table 614.-- NUMBER AND VALUE OF BUILDING PERMITS, BY COUNTIES: 1976 TO 1986

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
NUMBER ISSUED					
1976	23,453	15,937	3,535	1,195	2,786
1977	23,406	15,793	3,536	1,173	2,904
1978	25,807	17,758	3,938	1,470	2,641
1979	26,515	18,297	4,062	1,540	2,616
1980	22,771	15,729	3,732	1,210	2,040
1981	21,395	15,141	3,427	1,276	1,551
1982	16,974	11,743	2,581	1,214	1,436
1983	19,733	13,018	2,649	2,165	1,901
1984	20,582	14,404	2,834	1,437	1,907
1985	23,332	16,011	2,933	1,544	2,844
1986	21,461	14,237	2,717	1,486	3,021
ESTIMATED VALUE ($1,000)					
1976	581,226	411,497	58,137	29,921	81,671
1977	534,278	356,591	62,088	32,060	83,539
1978	756,757	421,692	81,965	59,858	193,242
1979	984,559	566,991	144,768	118,453	154,347
1980	1,278,911	745,565	146,395	133,261	253,690
1981	898,428	550,254	136,617	67,844	143,713
1982	714,938	493,139	75,715	55,380	90,704
1983	767,305	410,763	95,979	142,859	117,704
1984	710,661	473,943	102,805	74,076	59,837
1985	990,879	619,689	132,735	59,522	178,933
1986	1,161,489	674,057	231,997	101,315	154,120

Source: City and County of Honolulu Department of Buildings, Summary of Building Permits (annual); Hawaii, Kauai, and Maui County departments of public works, records.

Table 615.-- VALUE OF BUILDING PERMITS, BY TYPE, BY COUNTIES: 1986

[Thousands of dollars. Limited to private construction, including additions, alteration, and repairs]

Category	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Total	1,024,078	545,259	231,499	93,199	154,120
Residential	455,451	263,976	63,603	37,994	89,877
Hotel	82,442	6,611	44,000	31,831	-
Non-residential	183,868	91,009	52,351	12,561	27,945
Additions and alterations	302,318	183,663	71,544	10,813	36,298

Source: Calculated by Hawaii State Department of Planning and Economic Development from county "Monthly Cooperative Report of Local Construction" submitted to F.W. Dodge Division, McGraw-Hill Information Systems Company.

Table 616.-- GENERAL EXCISE TAX BASE FOR CONTRACTING: 1976 TO 1986

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems]

Year 1/	Amount	Year 1/	Amount	Year 1/	Amount
1976 ..	1,012,952	1980 ..	1,569,658	1984 ..	1,242,929
1977 ..	983,618	1981 ..	1,613,764	1985 ..	1,367,733
1978 ..	1,060,898	1982 ..	1,294,871	1986 ..	1,808,024
1979 ..	1,325,460	1983 ..	1,353,405		

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to income received in the 12-month period ended November 30.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 617.-- GOVERNMENT CONSTRUCTION CONTRACTS AWARDED, BY AWARDING AGENCY AND LOCATION OF CONSTRUCTION: 1982 TO 1986

[In thousands of dollars. By date of publication]

Awarding agency and location	1982	1983	1984	1985	1986
Total	392,767	277,877	411,753	248,499	425,146
Awarding agency:					
Federal agencies	139,588	84,723	129,969	74,841	101,943
State agencies	181,989	126,766	196,674	93,785	205,443
City and County of Honolulu	32,520	49,531	64,715	47,784	90,413
Other counties	38,670	16,856	20,394	32,090	27,346
Location of construction:					
City and County of Honolulu	298,638	218,995	315,510	177,650	313,444
County of Hawaii	23,009	20,364	22,981	17,872	61,041
County of Kauai	25,431	7,994	43,147	15,264	33,765
County of Maui	45,688	30,524	30,114	37,713	16,895

Source: Compiled by Hawaii State Department of Planning and Economic Development from Trade Publishing Company, BID Service Weekly.

Table 618.-- ESTIMATED VALUE PER HOUSING UNIT, BY TYPE OF STRUCTURE, FOR BUILDING PERMITS ISSUED BY THE CITY AND COUNTY OF HONOLULU: 1981 TO 1986

[In dollars. Excludes building permits for additions, alterations and repair]

Type of structure	1981	1982	1983	1984	1985	1986
One-family	72,044	59,719	68,819	70,230	67,783	80,119
Two-family	69,071	85,511	62,808	53,230	58,337	59,184
Multi-family	70,710	44,727	50,552	37,892	46,089	47,789

Source: City and County of Honolulu Department of Building, "Summary of Building Permits" (annual tabular release).

Table 619.-- PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION AUTHORIZED BY PERMITS, BY COUNTIES: 1982 TO 1986

Category and year authorized	State total	City and County of Hono-lulu	Other counties			
			Total	Hawaii	Kauai	Maui
New 1-family dwellings:						
1982	2,451	891	1,560	800	230	530
1983	3,387	1,562	1,825	880	398	547
1984	4,117	2,197	1,920	900	382	638
1985	4,663	2,313	2,350	979	387	984
1986	4,985	2,024	2,961	1,127	417	1,417
New duplex units:						
1982	32	32	-	-	-	-
1983	138	60	78	58	6	14
1984	146	112	34	28	4	2
1985	208	112	96	64	-	32
1986	166	112	54	18	2	34
New apartments:						
1982	3,038	2,553	485	245	118	122
1983	1,341	1,220	121	38	73	10
1984	1,134	942	192	153	35	4
1985	2,388	1,744	644	129	84	431
1986	3,813	2,076	1,737	1,265	-	472
Units demolished:						
1982 1/.............	568	443	125	34	1	90
1983 2/	505	385	120	54	4	62
1984	528	429	99	50	5	44
1985 3/	555	455	100	38	12	50
1986 4/	690	534	156	43	60	53

1/ Data exclude housing units destroyed by Hurricane Iwa on November 23-24, 1982 (127 in the City and County of Honolulu and 543 in the County of Kauai).

2/ Excludes 16 structures destroyed by volcanic activity in Hawaii County.

3/ Excludes 11 homes in Hilo destroyed by high winds, February 16, 1986.

4/ Excludes 14 structures destroyed by volcanic activity and 1 by high winds, all in Hawaii County.

Source: Compiled from County building departments by the Hawaii State Department of Business and Economic Development.

Table 620.-- NUMBER OF CONDOMINIUM UNITS BUILT AND STANDING: 1961 TO 1982

Year	Built during year	Standing, end of year	Year	Built during year	Standing, end of year
1961	-	-	1972	2,835	22,473
1962	182	182	1973	6,741	29,214
1963	41	223	1974	9,275	38,489
1964	1,557	1,780	1975	10,798	49,287
1965	1,091	2,871	1976	7,357	56,644
1966	2,061	4,871	1977	3,321	59,965
1967	1,545	6,477	1978	3,210	63,175
1968	2,181	8,658	1979	6,816	69,991
1969	1,754	10,412	1980	10,441	80,432
1970	4,908	15,320	1981	9,704	90,136
1971	4,318	19,638	1982	7,795	97,931

Source: Bank of Hawaii, Construction in Hawaii, 1983 (1983), p. 7.

Table 621.-- HOUSING UNITS CONVERTED FROM RENTAL UNITS TO CONDOMINUM UNITS: 1963 TO 1986

Subject	1963-1980	1981	1982	1983	1984	1985	1986
Projects	207	27	12	12	32	18	36
Housing units	9,886	661	227	596	607	117	151

Source: 1963-1980 compiled by Real Estate Research Center, College of Business Administration, University of Hawaii, from the records of the Hawaii Real Estate Commission; 1981 and later years from Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, records.

Table 622.-- CONDOMINIUM PROJECTS REGISTERED WITH THE STATE OF HAWAII: 1982 TO 1986

Subject	1982	1983	1984	1985	1986
Projects	48	56	76	69	87
Residential units	1,500	3,024	2,662	1,477	1,346
Business or commercial units	472	410	149	269	405

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, records.

Table 623.-- TIME SHARE PROPERTIES AND UNITS, BY GEOGRAPHIC AREAS: DECEMBER 9, 1987

[Time sharing refers to the use, occupancy, or possession of accommodations among various persons for less than 60 days in any year, for any occupant. Based on a total of 81 plans for the 1985-87 biennium]

Geographic area	Properties	Units
State total	70	2,958
Oahu	23	1,594
Waikiki	19	1,380
Rest of Oahu	4	214
Hawaii	5	62
Kauai	18	798
Maui	24	504

Source: State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Time Sharing Office, records.

Table 624.-- HONOLULU CONSTRUCTION COST INDEXES: 1982 TO 1987

[1967=100. Data are annual averages unless otherwise specified]

Year	Single-family residence			High-rise building		
	All components	Materials prices	Labor 1/	All components	Materials prices	Labor 1/
1982	304.7	250.6	372.9	330.3	281.4	372.7
1983	331.5	276.5	400.9	352.1	294.6	402.0
1984	348.2	281.4	432.5	367.4	294.5	430.7
1985	357.6	286.7	447.1	375.2	295.8	444.0
1986	369.8	294.6	464.7	385.8	247.3	461.9
1987: July 2/	374.2	291.1	479.1	389.3	291.4	474.1

1/ Wages and benefits.
2/ Preliminary.
Source: First Hawaiian Bank, Research Department, records.

Table 625.-- SUMMARY STATISTICS FOR CONSTRUCTION INDUSTRIES AND SUBDIVIDERS AND DEVELOPERS: 1967 TO 1982

[Excludes establishments without payroll]

Subject	1967	1972	1977	1982
Number of establishments in business during year	1,220	1,570	1,732	1,861
Proprietors and working partners	718	590	530	396
All employees	17,171	25,012	20,792	18,665
Construction workers, average.......	14,430	20,163	15,784	13,953
Other employees, March	2,666	4,949	5,032	4,711
Payroll ($1,000,000)	133.6	282.6	323.4	409.7
All business receipts ($1,000,000) ...	543.3	1,085.5	1,435.2	1,853.3
Value added ($1,000,000)	230.3	477.5	636.2	855.2

Source: U.S. Bureau of the Census, 1982 Census of Construction Industries, Pacific States, CC82-A-9 (April 1985), Hawaii table 4.

Table 626.-- SUMMARY STATISTICS FOR CONSTRUCTION INDUSTRIES AND SUBDIVIDERS AND DEVELOPERS, BY INDUSTRY: 1977 AND 1982

[Includes establishments both with and without payroll]

SIC code	Industry	Number	Proprietors and working partners	All employees	All business receipts ($1,000)
	1977				
	Construction industries and subdividers and developers	3,170	2,020	20,792	1,508,865
15-17	Construction industries 1/	3,029	1,848	20,187	(D)
15	General building contractors and operative builders	843	459	7,944	779,765
16	Heavy construction, general contractors	114	50	2,319	(D)
17	Special trade contractors	2,072	1,340	9,924	469,029
6552	Subdividers and developers, n.e.c. 2/	145	172	607	(D)
	1982				
	Construction industries and subdividers and developers	4,259	2,799	18,665	2,032,087
15-17	Construction industries 1/	4,092	2,645	18,340	1,894,673
15	General building contractors and operative builders	1,020	564	6,290	944,585
16	Heavy construction, general contractors	133	67	1,768	179,221
17	Special trade contractors	2,939	2,014	10,282	770,867
6552	Subdividers and developers, n.e.c. 2/	162	154	323	137,412

D Withheld to avoid disclosing data for individual companies.

1/ For establishments without payroll, may also include data for construction establishments not classified to two-digit industry detail.

2/ For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Source: U.S. Bureau of the Census, *1982 Census of Construction Industries, Pacific States*, CC82-A-9 (April 1985), Hawaii table 1.

Table 627.-- DETAILED STATISTICS FOR CONSTRUCTION INDUSTRIES AND SUBDIVIDERS AND DEVELOPERS: 1977 AND 1982

Item	1977	1982
Number of establishments in business during year ...	1,732	1,861
Proprietors and working partners	530	396
All employees	20,792	18,665
Construction workers:		
March	15,808	14,789
May	16,516	14,317
August	16,798	12,977
November	13,955	12,915
Average	15,784	13,953
Other employees:		
March	5,032	4,711
Construction worker hours (thousands):		
Total hours worked	(NA)	21,817
Payroll, all employees ($1,000)	323,402	409,679
Payroll, construction workers	240,359	297,885
Payroll, other employees	83,043	111,794
All business receipts ($1,000)	1,435,157	1,853,343
Total construction receipts	1,329,495	1,785,660
Receipts for work subcontracted in from others .	303,490	425,754
Land receipts	(NA)	18,509
Other business receipts	105,662	49,174
Net construction receipts ($1,000)	962,065	1,261,905
Value added ($1,000)	636,173	855,164
Selected payments ($1,000)	744,283	979,670
Materials, components, and supplies	361,304	418,874
Construction work subcontracted to others	367,430	523,754
Selected power, fuels, and lubricants	15,549	37,041
Ownership of construction projects:		
Total construction receipts ($1,000)	1,329,495	1,785,660
Government owned	439,607	499,385
Privately owned	889,888	1,286,274

NA Not available.

Source: U.S. Bureau of the Census, 1982 Census of Construction Industries, Pacific States, CC82-A-9 (April 1985), Hawaii table 4.

Table 628.-- TENURE AND CONTROL OF HOUSING UNITS: 1970 TO 1987

[Data include condominium units occupied or intended for occupancy by nonresidents]

Year	All housing units 1/	Owner occupied units 2/		Renter occupied and vacant units		
		Land owned	Land leased	Private 3/	Federal 4/	State and County 4/
1970 ..	216,774	68,422	20,802	106,821	14,439	6,290
1971 ..	228,749	72,086	21,732	113,531	15,089	6,311
1972 ..	238,770	75,939	24,565	117,111	14,959	6,196
1973 ..	250,742	78,878	26,776	123,934	15,071	6,083
1974 ..	266,828	82,494	30,333	131,368	16,373	6,260
1975 ..	284,120	85,264	30,543	145,276	16,386	6,651
1976 ..	298,339	88,284	33,730	152,578	17,225	6,522
1977 ..	306,989	89,980	34,549	158,223	17,493	6,744
1978 ..	315,513	92,989	35,869	161,728	18,653	6,274
1979 ..	324,261	96,273	36,540	165,045	19,022	7,381
1980 ..	334,235	100,478	36,986	170,963	19,437	6,371
1981 ..	342,873	104,677	37,413	174,753	19,427	6,603
1982 ..	348,980	106,147	37,372	179,579	19,392	6,490
1983 ..	353,414	108,761	35,586	183,249	19,304	6,514
1984 ..	359,107	111,767	35,545	185,657	19,294	6,844
1985 ..	364,436	114,548	35,681	187,905	19,280	7,022
1986 5/	370,548	117,090	35,811	191,475	19,264	6,908
1987 ..	378,519	121,019	35,959	195,203	19,265	7,073

1/ As of April 1.

2/ As indicated by the number of taxpayers claiming home exemptions. The number of owner occupied housing units reported by the U.S. Census of Housing is somewhat higher than the corresponding number based on taxpayer home exemptions, chiefly because of differences in definitions. Data for 1977-1986 refer to January 1; data for 1970-1976, to July 1.

3/ Calculated as a residual after accounting for the known components, some of which pertain to dates other than April 1, and thus not attributable to any specific date.

4/ As of April 1. Data include housing units leased from private owners.

5/ Revised.

Source: Hawaii State Department of Business and Economic Development, Housing Unit Estimates for Hawaii, 1970-1987 (Statistical Report 204, October 23, 1987), table 1.

Table 629.-- HOUSING UNITS STANDING, BY COUNTIES: ANNUALLY, 1970 TO 1987

[As of April 1. Data include condominium units occupied or intended for occupancy by nonresidents]

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
1970 ..	216,774	174,742	42,032	18,972	9,021	14,039
1971 ..	228,749	184,101	44,648	20,061	9,298	15,289
1972 ..	238,770	190,973	47,797	21,648	9,555	16,594
1973 ..	250,742	198,970	51,772	23,578	10,092	18,102
1974 ..	266,828	210,940	55,888	25,282	10,700	19,906
1975 ..	284,120	223,647	60,473	26,694	11,347	22,432
1976 ..	298,339	232,669	65,670	28,131	11,934	25,605
1977 ..	306,989	237,571	69,418	29,453	12,433	27,532
1978 ..	315,513	243,103	72,410	30,579	12,841	28,990
1979 ..	324,261	247,465	76,796	32,283	13,610	30,903
1980 ..	334,235	252,038	82,197	34,215	14,828	33,154
1981 ..	342,873	254,969	87,904	36,180	16,314	35,410
1982 ..	348,980	256,967	92,013	37,738	17,081	37,194
1983 ..	353,414	259,574	93,840	38,702	16,937	38,201
1984 ..	359,107	262,902	96,205	39,762	17,539	38,904
1985 ..	364,436	266,127	98,309	40,820	17,979	39,510
1986 1/	370,548	269,390	101,158	41,944	18,446	40,768
1987 ..	378,519	273,054	105,465	43,756	18,929	42,780

1/ Revised.

Source: Hawaii State Department of Business and Economic Development, Housing Unit Estimates for Hawaii, 1970-1987 (Statistical Report 204, October 23, 1987), table 2.

Table 630.-- TENURE AND CONTROL OF HOUSING, BY COUNTIES: 1985 TO 1987

[As of April 1. Condominium units occupied or intended for occupancy by nonresidents are included in these estimates]

County	All housing units	Owner occupied units 1/		Renter occupied and vacant units		
		Land owned	Land leased	Private	Federal	State and County
1985						
State total ..	364,436	114,548	35,681	187,905	19,280	7,022
City & Co. of Hon.	266,127	78,320	33,672	129,777	19,138	5,220
County of Hawaii ..	40,820	17,652	1,121	21,000	50	997
County of Kauai ...	17,979	6,617	224	10,747	64	327
County of Maui	39,510	11,959	664	26,381	28	478
1986 (revised)						
State total ..	370,548	117,090	35,811	191,475	19,264	6,908
City & Co. of Hon.	269,390	79,929	33,644	131,529	19,134	5,154
County of Hawaii ..	41,944	18,210	1,200	21,528	50	956
County of Kauai ...	18,446	6,809	248	10,995	65	329
County of Maui	40,768	12,142	719	27,423	15	469
1987						
State total ..	378,519	121,019	35,959	195,203	19,265	7,073
City & Co. of Hon.	273,054	82,728	33,656	132,213	19,135	5,322
County of Hawaii ..	43,756	18,704	1,241	22,795	50	966
County of Kauai ...	18,929	7,002	273	11,260	65	329
County of Maui	42,780	12,585	789	28,935	15	456

1/ As indicated by the number of taxpayers claiming home exemptions, as of January 1.

Source: Hawaii State Department of Business and Economic Development, Housing Unit Estimates for Hawaii, 1970-1987 (Statistical Report 204, October 23, 1987), table 4.

Table 631.-- RESIDENT AND NONRESIDENT HOUSING UNITS, BY COUNTIES: 1977 TO 1987

Category and year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
RESIDENT 1/						
1977	301,904	237,059	64,845	29,123	11,843	23,879
1978	308,444	241,573	66,871	30,008	12,062	24,801
1979	315,728	245,101	70,627	31,548	12,623	26,456
1980	322,598	247,152	75,446	33,594	13,395	28,457
1981	328,679	249,330	79,349	34,921	14,458	29,970
1982	334,580	251,280	83,300	36,254	15,402	31,644
1983	340,001	254,827	85,174	36,933	15,931	32,310
1984	341,505	256,015	85,490	37,860	15,941	31,689
1985	342,632	257,111	85,521	38,541	15,903	31,077
1986 2/	347,549	259,552	87,997	39,892	15,872	32,233
1987	356,623	263,818	92,805	41,654	16,298	34,853
NONRESIDENT 3/						
1977	5,085	512	4,573	330	590	3,653
1978	7,069	1,530	5,539	571	779	4,189
1979	8,533	2,364	6,169	735	987	4,447
1980	11,637	4,886	6,751	621	1,433	4,697
1981	14,194	5,639	8,555	1,259	1,856	5,440
1982	14,400	5,687	8,713	1,484	1,679	5,550
1983	13,413	4,747	8,666	1,769	1,006	5,891
1984	17,602	6,887	10,715	1,902	1,598	7,215
1985	21,804	9,016	12,788	2,279	2,076	8,433
1986	22,999	9,838	13,161	2,052	2,574	8,535
1987	21,896	9,236	12,660	2,102	2,631	7,927

1/ Estimated as of April 1. Includes all housing units other than condominium units in rental pools and intended for transient occupancy.

2/ Revised.

3/ Condominium units in rental pools and intended for transient occupancy, based on February survey data from the Hawaii Visitors Bureau.

Source: Hawaii State Department of Business and Economic Development, Housing Unit Estimates for Hawaii, 1970-1987 (Statistical Report 204, October 23, 1987), table 3.

Table 632.-- CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1970, 1976, 1979, AND 1983

[Oahu was dropped from this survey after 1983]

Subject	1983	1979	1976	1970
All housing units	262,900	248,100	219,600	174,200
TENURE AND VACANCY STATUS				
All year-round housing units	262,800	247,900	219,300	174,100
Occupied	245,800	231,000	200,400	164,800
Owner occupied	120,600	117,200	96,100	74,200
Percent	49.0	50.7	47.9	45.0
Cooperatives and condominiums	21,500	20,700	13,900	(NA)
Renter occupied	125,200	113,800	104,300	90,600
Vacant year-round 1/	17,000	16,900	18,900	9,300
For sale only	1,200	900	5,100	1,100
Homeowner vacancy rate	0.9	0.8	5.0	1.5
For rent	6,200	7,300	6,600	4,500
Rental vacancy rate	4.7	6.0	6.0	4.7
Other vacant 1/	9,500	8,800	7,200	3,700
STRUCTURAL CHARACTERISTICS				
Units in structure: percent 1, detached	47.5	50.9	52.5	56.7
Year built: percent 1939 or earlier	9.8	11.1	12.6	15.7
Plumbing facilities: percent lacking some or all	0.8	1.5	1.6	3.0
Bathrooms: percent 2 or more	34.7	34.4	32.3	26.4
Kitchen facilities: percent incomplete or shared	2.1	2.1	2.7	2.9
Rooms: median	4.7	4.7	4.7	4.6
Bedrooms: percent 3 or more	50.4	51.8	53.5	50.9
Heating equipment: percent none	98.0	97.4	97.1	95.5
Air conditioning: percent none	82.0	81.3	81.8	86.7
Basement: percent none	89.3	91.4	92.1	(NA)
Public sewer: percent not linked	8.6	8.4	11.2	14.4
OCCUPANCY CHARACTERISTICS				
Persons per occupied unit	3.08	3.18	3.30	3.60
Percent 1.01 or more persons per room:				
Owner occupied	5.6	6.4	7.5	15.5
Renter occupied	10.9	11.2	12.1	22.0
Percent moved into unit past 12 months:				
Owner occupied	5.1	9.2	8.6	(NA)
Renter occupied	30.4	34.5	39.8	(NA)

Continued on next page.

Table 632.-- CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1970, 1976, 1979 AND 1983 -- Con.

Subject	1983	1979	1976	1970
FINANCIAL CHARACTERISTICS				
Median income of families and primary individuals:				
Owner occupied	$38,000	$28,900	$23,600	$14,900
Renter occupied	$16,000	$12,800	$11,000	$8,000
Owner occupied 1-unit structures:				
Median value	$163,400	$125,600	$79,600	$38,400
Median value-income ratio	4.1	4.2	3.1	2.6
Median selected monthly housing costs --				
Units with a mortgage	$617	$474	$381	(NA)
Units with no mortgage	$157	$102	$81	(NA)
Renter occupied:				
Median gross rent	$413	$278	$234	$141
Nonsubsidized units	$425	$288	$241	(NA)
Gross rent as percent of income	31	26	26	22
Nonsubsidized	31	26	27	(NA)
Median contract rent	$372	$254	$216	$132

NA Not available.

1/ Includes units rented or sold but not occupied, units held for occasional use, and units occupied entirely by persons with usual place of residence elsewhere.

Source: U.S. Bureau of the Census, Annual Housing Survey: 1983, Honolulu, Hawaii, SMSA (Current Housing Reports, H-170-83-48, June 1985), Part A, tables A-1 and A-2; Annual Housing Survey: 1979, Honolulu, Hawaii, SMSA (Current Housing Reports, H-170-79-48, August 1983), Part A, tables A-1 and A-2.

Table 633.-- GENERAL HOUSING CHARACTERISTICS, BY COUNTIES: 1980

Subject	State total 1/	Honolulu	Hawaii	Kauai	Maui
Persons in occupied units	925,092	725,865	90,436	38,679	70,008
Per occupied unit	3.15	3.15	3.09	3.22	3.11
Total housing units	334,235	252,038	34,215	14,828	33,033
Year-round housing units:					
Number	332,213	250,866	33,954	14,544	32,728
Median rooms	4.4	4.3	4.7	4.6	3.9
One unit at address (percent)	59.5	56.6	76.1	81.1	54.9
Lacking complete plumbing for exclusive use (percent)	2.3	1.5	7.0	4.8	2.9
Occupied housing units:					
Number	294,052	230,214	29,237	12,020	22,510
With 1.01 or more persons per room (percent)	15.3	15.5	13.0	15.2	16.4
Owner-occupied units:					
Number	151,954	114,831	17,731	6,429	12,963
Percent of occupied units	51.7	49.9	60.6	53.5	57.6
Median value 2/ ($1,000)	118.1	129.5	71.2	89.7	112.1
Renter-occupied units:					
Number	142,098	115,383	11,506	5,591	9,547
Median contract rent 3/ (dollars)	271	276	220	176	306
Vacant units, total 4/	38,161	20,652	4,717	2,524	10,218
For sale only	2,153	1,321	455	98	278
Homeowner vacancy rate	1.4	1.1	2.5	1.5	2.1
For rent	16,289	9,002	1,883	1,490	3,913
Rental vacancy rate	10.3	7.2	14.1	21.0	29.1
Rented or sold, awaiting occupancy	4,518	2,415	835	321	946
Held for occasional use	4,409	2,311	853	318	906
Other vacant	10,792	5,603	691	297	4,175
Condominium units, total	71,708	56,390	3,072	1,853	10,393
Owner-occupied	24,730	23,474	298	86	872
Renter-occupied	22,053	19,812	726	154	1,361
Vacant 4/	24,925	13,104	2,048	1,613	8,160

Footnotes and source on next page.

Table 633.-- GENERAL HOUSING CHARACTERISTICS, BY COUNTIES: 1980 -- Con.

1/ Includes Kalawao County (121 housing units), not shown separately.

2/ Estimated market value of property (house and lot), for one-family houses on less than 10 acres. The median value of owner-occupied condominium units was $98,600.

3/ Excluding no cash rent.

4/ Units temporarily occupied, or intended for occupancy, entirely by persons who have a usual residence elsewhere are classified as vacant. Shared ownership or time-sharing condominiums are classified as "vacant, held for occasional use."

Source: U.S. Bureau of the Census, 1980 Census of Housing, General Housing Characteristics, Hawaii, HC80-1-A13 (July 1982), tables 1, 5, 7, 46 and 48.

Table 634.-- HAWAII HOUSING AUTHORITY OPERATIONS: 1984 TO 1986

Subject	1984	1985	1986
Total units owned by HHA, June 30	5,742	5,735	1/ 5,773
Occupied	5,671	5,682	5,702
Population in units, June 30	18,257	18,237	18,147
Per occupied unit	3.2	3.2	3.2
Total assets, June 30 ($1,000)	430,087	691,000	754,000
Operating revenues of HHA, fiscal year: 2/			
Gross ($1,000)	11,455	12,608	12,706
Net ($1,000)	-977	620	948
Operating revenues per unit per month, fiscal year (dollars) 2/	166.24	205.04	206.68
Rent charged per unit per month, fiscal year (dollars) 2/	146.59	134.65	182.50

1/ Federal low-rent, 5,172; State-subsidized, 510; and other, 91.

2/ Federal projects only; revenue amounts include Federal subsidies.

Source: Hawaii Housing Authority, data provided January 26, 1987.

NEIGHBORHOOD STATISTICS PROGRAM AREAS

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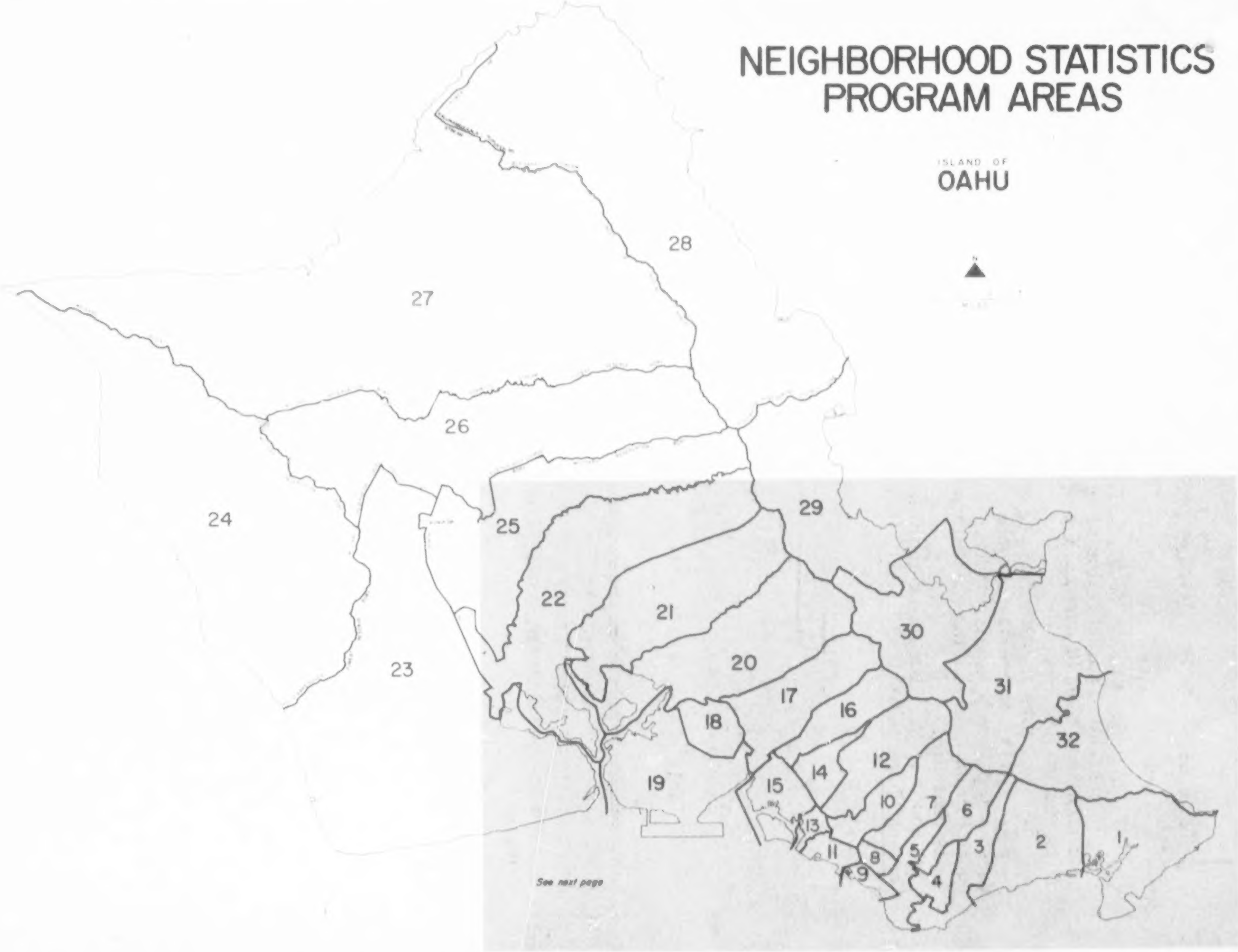
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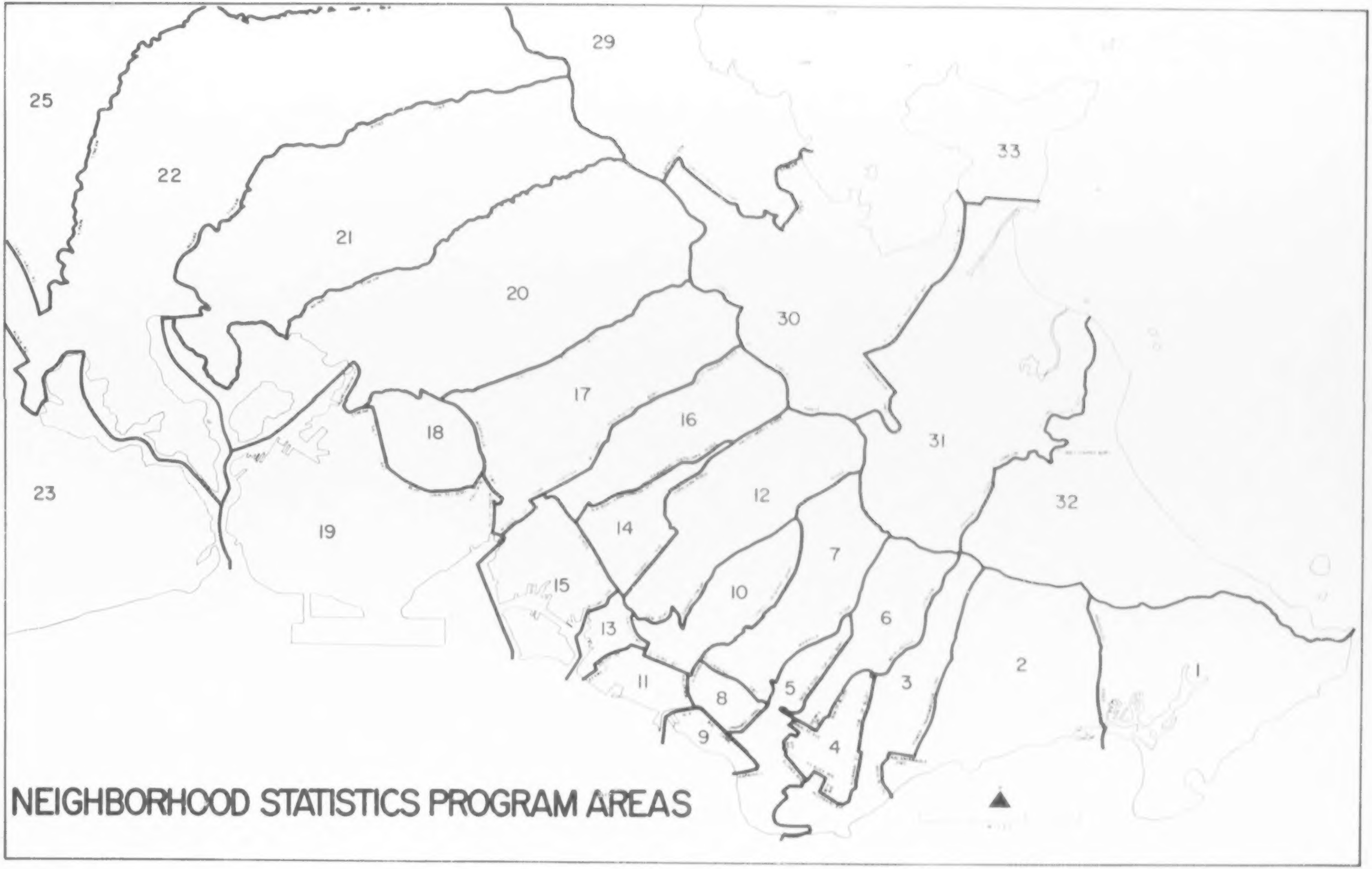

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NEIGHBORHOOD STATISTICS PROGRAM AREAS

Table 635.-- HOUSING CHARACTERISTICS OF NEIGHBORHOODS, FOR OAHU: 1980

Neighborhood (see maps on pp. 578-579)	Year-round housing units		Occupied housing units		Owner occupied units: 1/ median value ($1,000)	Renter occupied units: median gross rent (dollars)
	Number	Percent in one-unit structures	Average household size	Percent owner occupied		
Oahu total	250,864	47.1	3.15	49.9	130.4	315
1 Hawaii Kai	7,921	75.5	3.37	83.2	170.5	500+
2 Kuliouou	4,517	87.1	3.27	85.1	180.0	475
3 Waialae-Kahala ...	4,104	72.8	2.95	79.1	200+	500+
4 Kaimuki	6,406	73.3	3.05	62.3	138.7	330
5 Diamond Head/ Kapahulu	8,442	41.7	2.66	50.5	131.8	311
6 Palolo	4,176	63.6	3.41	55.2	110.3	285
7 Manoa	6,821	58.1	2.89	59.6	178.1	352
8 McCully/Moiliili .	13,310	7.7	2.17	27.5	111.2	285
9 Waikiki	18,150	1.2	1.76	29.8	59.6	360
10 Makiki/Tantalus ..	14,937	9.2	2.01	34.3	194.7	315
11 Ala Moana/Kakaako	6,273	3.1	1.80	31.3	110.4	310
12 Nuuanu/Punchbowl .	5,555	58.4	2.98	54.9	131.8	312
13 Downtown	4,770	1.5	1.85	20.8	90.0	286
14 Liliha/Kapalama ..	6,565	55.1	3.16	54.2	127.3	276
15 Kalihi/Palama	11,152	22.3	3.54	24.7	97.5	226
16 Kalihi Valley	3,981	54.0	4.44	56.2	109.5	272
17 Moanalua	3,454	52.9	3.63	43.6	152.3	233
18 Aliamanu/Salt Lake	9,757	33.5	3.35	40.6	152.5	355
19 Airport	5,739	44.7	3.48	0.5	73.6	275
20 Aiea	9,236	52.5	3.28	58.4	129.3	399
21 Pearl City	11,362	80.2	3.78	76.4	127.2	429
22 Waipahu	8,519	60.4	4.03	54.3	118.7	346
23 Ewa	9,322	73.3	3.87	51.0	110.0	282
24 Waianae Coast	9,524	53.8	3.93	51.4	77.0	313
25 Mililani/Waipio ..	7,989	62.6	3.35	76.6	136.3	404
26 Wahiawa	10,677	44.6	3.40	26.6	96.7	266
27 North Shore	4,415	67.9	3.25	40.5	91.1	324
28 Koolauloa	3,462	60.6	3.77	35.6	82.8	275
29 Kahaluu	3,613	68.2	3.50	66.2	139.1	390
30 Kaneohe	10,033	75.1	3.59	72.0	122.5	393
31 Kailua	12,562	80.2	3.38	72.3	138.2	426
32 Waimanalo	2,241	78.8	4.26	63.5	68.5	255
33 Mokapu	1,889	38.0	3.55	0.1	...	238

1/ Limited to owner occupied one-family houses on less than 10 acres.
Source: Bureau of the Census, 1980 Census of Population and Housing, Neighborhood Statistics Program, Hawaii, PHC80-SP1-13 (1983).

Table 636.-- HOUSING VACANCY SURVEYS OF OAHU: 1977 TO 1986

[Sponsored by the Federal Home Loan Bank of Seattle and conducted by U.S. mail carriers. Data for 1977-1981 have been adjusted to include newly completed but vacant units, omitted from base in earlier reports. No survey was published for 1984, 1985, and 1987, and none is scheduled for 1988]

Year and month	Total units	Vacant units				Units under con-struction
		Used and new		Used	New	
		Number	Percent			
1977: April 1/ ...	215,923	5,472	2.5	3,399	2,073	2,228
1978: March	226,103	5,178	2.3	3,312	1,866	4,820
1979: May	233,631	4,081	1.7	2,584	1,497	4,754
1980: March	238,028	5,104	2.1	3,039	2,065	3,980
1981: March	240,354	5,235	2.2	3,306	1,929	2,400
1982: March	244,077	4,130	1.7	2,665	1,465	1,087
1983: March	241,355	3,253	1.3	2,558	695	2,002
1986: May	250,500	5,750	2.3	4,593	1,157	877
TYPE OF UNIT: 1986						
Single-family units	141,938	1,489	1.0	1,166	323	438
Multi-family units	108,554	4,261	3.9	3,427	834	439
Mobile homes	8	-	0	0	..	...

1/ Dated March 1977 in the original report but April 1977 thereafter. For survey data for 1955-1976, see Historical Statistics of Hawaii, p. 397.

Source: Federal Home Loan Bank of Seattle, Honolulu Housing Vacancy Survey (annual), as adjusted to 1982-1986 definitions.

Table 637.-- VACANCY RATES FOR HOUSING ON OAHU AND THE NEIGHBOR ISLANDS: ANNUAL AVERAGES, 1970 TO 1986

[Based on housing units sampled for the Hawaii Health Surveillance Program survey. Units occupied by households temporarily absent were classified as occupied. The base excludes units occupied by transients]

Year	Units sampled			Percent vacant		
	State total	Oahu	Other islands	State average	Oahu	Other islands
1970 1/ ..	6,107	3,217	2,890	3.2	3.5	3.0
1971	5,370	2,493	2,877	3.6	3.2	5.1
1972	7,177	5,423	1,754	3.9	3.5	5.4
1973	6,735	5,456	1,279	3.1	2.6	5.0
1974	6,301	4,982	1,319	4.1	3.9	4.7
1975	6,632	5,360	1,272	5.6	5.2	6.9
1976 2/ ..	2,440	1,817	623	5.1	5.0	5.6
1977	6,899	4,526	2,373	5.9	6.1	5.1
1978	6,690	4,102	2,588	4.0	3.8	4.5
1979	5,936	3,519	2,417	3.2	2.8	4.4
1980	6,499	3,613	2,886	4.2	3.9	5.0
1981	6,174	3,195	2,979	4.8	4.4	5.8
1982	6,509	3,468	3,041	3.9	3.4	5.4
1983	6,139	3,147	2,992	3.8	3.1	5.8
1984 3/ ..	7,238	3,827	3,411	4.5	3.1	6.5
1985 4/ ..	7,485	3,872	3,613	5.0	4.7	5.7
1986	7,143	3,653	3,490	4.5	4.5	4.5

1/ Neighbor Island data based on last 9 months of 1970.

2/ Survey suspended during the first 6 months of 1976.

3/ Sample excluded housing units on military bases, included in other years.

4/ Revised from Data Book 1986, table 612.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, records.

Table 638.-- PERSONS AND HOUSEHOLD HEADS, TOTAL AND CIVILIAN, CHANGING RESIDENCE IN PAST YEAR: 1976 TO 1986

[Excludes persons in institutions or barracks, in Kalawao, or on Niihau]

Year surveyed	Movers		Percent moving 1/	
	Total	Civilians 2/	Total	Civilians 2/
Persons 1 year old and over:				
1976	139,922	110,100	16.6	14.4
1977	153,357	112,867	18.3	15.3
1978	148,048	110,451	15.5	14.7
1979	139,025	103,705	16.2	13.3
1980	122,691	89,981	13.5	11.1
1981	137,717	105,767	15.0	12.8
1982	147,684	115,685	15.8	13.8
1983	135,496	96,824	14.1	11.4
1984 3/	140,509	101,730	14.4	11.6
1985 4/	133,466	101,840	13.6	11.5
1986	130,796	99,990	13.1	11.1
Household heads:				
1976	49,456	39,738	18.8	16.5
1977	53,482	40,102	19.8	16.6
1978	48,875	36,968	18.9	16.0
1979	45,908	34,069	17.2	14.0
1980	40,654	29,370	14.3	11.5
1981	48,264	36,780	16.5	14.0
1982	51,817	39,870	17.2	14.7
1983	45,692	32,155	14.7	11.7
1984 3/	45,798	34,637	15.3	12.8
1985 4/	42,923	31,778	14.4	11.8
1986	42,552	31,949	13.7	11.4

1/ Based on number reporting place of residence one year earlier.

2/ Based on military status when surveyed. Excludes members of the armed forces and their dependents.

3/ Persons in households living on military bases were omitted from the 1984 survey, although included in other years. For purposes of this table, such persons were assumed to have the same response distribution as members of military households living in the civilian community.

4/ Revised from Data Book 1986, table 613.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, records.

Table 639.-- MOBILITY OF HOUSEHOLD HEADS, BY MILITARY STATUS AND COUNTIES: 1986

[Based on place of residence one year prior to survey date. Expanded from a sample of 5,661 households. Excludes persons in institutions or military barracks, in Kalawao, or on Niihau]

Island and military status of household head 1/	All household heads	Non-movers	Movers		Mobility not reported
			Number	Percent 2/	
State total	314,376	268,092	42,552	13.7	3,732
Military	31,576	20,316	10,512	34.1	748
Civilian	282,685	247,776	31,949	11.4	2,960
Status not reported	115	-	91	100.0	24
Oahu	236,947	201,019	32,777	14.0	3,151
Military	31,471	20,295	10,428	33.9	748
Civilian	205,385	180,724	22,258	11.0	2,403
Status not reported	91	-	91	100.0	-
Other islands	77,429	67,073	9,775	12.7	581
Hawaii	35,407	31,132	3,978	11.3	297
Kauai	14,834	13,091	1,728	11.7	15
Maui, Molokai, and Lanai	27,188	22,850	4,069	15.1	269

1/ Military status of household head at the time of the survey.

2/ Based on number reporting.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 640.-- REAL ESTATE LICENSES, ACTIVE AND INACTIVE, BY TYPE OF LICENSE AND LOCATION: JUNE 1987

Type of license	Active	Inactive
Total	12,736	7,495
Broker:		
Individual	4,055	724
Corporation or partnership	977	91
Salesman	7,704	6,680

Location	Active	Inactive
Oahu	9,681	5,109
Hawaii	1,030	620
Maui	1,273	507
Kauai	471	242
Molokai	45	14
Lanai	2	-
U.S. mainland	230	972
Foreign	4	31

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, records.

Table 641.-- BUILDING VACANCY RATES FOR COMPETITIVE OFFICE SPACE AND RETAIL SPACE, FOR HONOLULU, BY LOCATION: 1984 TO 1987

[Rates are percent of space reported vacant in survey]

Type of space and location	May 1984	Oct. 1984	May 1985	Oct. 1985	May 1986	Oct. 1986	May 1987
Competitive office:							
Downtown	17.2	16.1	15.9	11.5	11.4	10.7	7.0
Downtown to Waikiki	12.7	12.6	9.1	9.1	6.4	6.1	6.9
Waikiki	2.7	2.8	1.5	3.5	5.1	4.2	1.5
Other	21.9	18.2	19.1	22.6	18.0	11.0	16.0
Retail:							
Downtown	4.9	5.4	1.1	7.5	6.5	4.4	6.0
Downtown to Waikiki	27.7	4.3	4.4	5.0	13.0	7.5	7.0
Waikiki	23.8	6.6	11.2	15.4	9.1	14.8	15.8
Other	0.0	31.8	0.0	(NA)	1.8	8.1	3.7

NA Not available.

Source: Semi-annual survey by Hastings, Martin, Conboy, Braig & Associates, Ltd., cited in Building Owners & Managers Associaton, Hawaii, Newsletter, May 1987.

Table 642.-- OFFICE AND INDUSTRIAL SPACE AND RENTAL RATES, FOR OAHU: 1986

Use and geographic area	Existing space (1,000 sq. ft.)	Vacant space		New construction (1,000 sq. ft.)		Rental rates (dollars per sq. ft. per mo.)	
		1,000 sq. ft.	Percent	1987	1986	Low	High
Office space	9,209	685	7.4	322	-	1.00	2.25
Downtown	5,148	444	8.6	95	-	1.40	2.25
King corridor ...	1,186	36	3.0	-	-	1.00	1.80
Kapiolani	1,182	50	4.2	-	-	1.30	2.00
Waikiki	507	14	2.8	-	-	1.90	2.00
Industrial space ..	28,159	608	2.2	513	139	0.25	0.98
Town	14,078	250	1.8	89	95	0.50	0.98
Airport	7,617	148	1.9	110	22	0.45	0.70
Leeward	3,788	74	2.0	14	-	0.25	0.60

Source: Grubb & Ellis, Honolulu Real Estate 1987, pp. 7 and 10.

Table 643.-- CHARACTERISTICS OF SINGLE-FAMILY AND MULTI-FAMILY DEVELOPMENTS, FOR OAHU: 1981 TO 1986

Year	Single-family developments				Multi-family developments 1/		
	Average area (square feet)		Units sold	Average price (dollars)	Average living area (sq. ft.)	Units sold	Average price (dollars)
	House	Lot					
1981 ..	1,389	5,698	354	157,026	1,215	278	103,310
1982 ..	1,232	5,037	308	137,267	1,198	134	114,669
1983 ..	1,173	4,380	772	135,357	740	500	85,064
1984 ..	1,261	4,613	1,176	140,700	720	504	81,373
1985 ..	1,263	5,360	1,139	147,093	773	316	93,737
1986 ..	1,191	4,887	1,392	156,189	858	727	108,656

1/ Four stories or less.

Source: Bank of Hawaii, Construction in Hawaii, 1987 (1987), pp. 12 and 14.

Table 644.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, FOR OAHU: 1957 TO 1986

[Data include 1-family and condominium properties for all years and cooperative, commercial/industrial, business opportunities, income, and vacant properties through 1977 and from 1982 forward]

Year	Number listed	Sold		
		Number	Percent	Average selling price (dollars)
1957	1,805	924	51.2	19,694
1958	2,064	936	45.3	21,365
1959	1,666	967	58.0	23,560
1960	1,868	795	42.6	27,808
1961	1,847	541	29.3	29,144
1962	1,522	515	33.8	29,332
1963	1,743	624	35.8	30,323
1964	1,934	882	45.6	32,951
1965	1,854	910	49.1	35,727
1966	2,137	813	38.0	35,652
1967	2,124	963	45.3	38,810
1968	2,375	1,133	47.7	42,546
1969	2,606	1,422	54.6	46,333
1970	3,415	1,693	49.6	44,755
1971	4,165	2,157	51.8	58,651
1972	6,022	4,555	75.6	60,810
1973	7,845	5,348	68.2	70,769
1974	10,933	4,821	44.1	70,918
1975	11,271	4,174	37.0	71,485
1976	10,627	4,311	40.6	75,483
1977	10,597	5,523	52.1	81,213
1978-1979 1/	9,926	5,714	57.6	82,076
1979-1980 1/	13,506	8,009	59.3	103,698
1980-1981 1/	14,090	5,553	39.4	124,897
1981 2/	13,799	3,735	27.1	144,227
1982	13,484	2,948	21.9	143,046
1983	13,556	4,868	35.9	142,914
1984 3/	13,258	4,732	35.7	141,888
1985	13,558	5,261	38.8	137,650
1986	16,047	6,467	40.3	151,985

1/ Year ended February 28 or 29.

2/ Data cover period of March through December only.

3/ Data cover period of January 1 through December 3 only.

Source: Honolulu Board of Realtors, records.

Table 645.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, BY TYPE OF PROPERTY, FOR OAHU: 1984 TO 1986

Year and type of property	Number listed	Number sold	Percent sold	Average sales price (dollars)
1984 (JAN. 1-DEC. 3)				
Total	13,258	4,732	35.7	141,888
Residential 1/	4,511	1,951	43.2	187,270
Condominium 2/	7,654	2,542	33.2	101,448
Vacant land	428	101	23.6	143,480
Income	158	44	27.8	434,738
Commercial/industrial	98	19	19.4	327,901
Business opportunity	174	18	10.3	58,944
Cooperative	235	57	24.3	127,364
1985				
Total	13,558	5,261	38.8	137,650
Residential 1/	4,717	2,146	45.5	188,900
Condominium/cooperative	8,065	2,901	36.0	98,800
Vacant land	402	143	35.6	114,300
Income/business opportunity	252	55	21.8	206,300
Commerical/industrial	122	16	13.1	280,400
1986				
Total	16,047	6,467	40.3	151,985
Residential	5,481	2,595	47.3	209,400
Condominium	9,509	3,600	37.8	107,700
Vacant land	496	162	32.7	138,880
Income property	402	81	20.1	205,560
Commerical	159	29	18.2	434,880

1/ Single-family.
2/ Includes units in duplexes and townhouses.
Source: Honolulu Board of Realtors, records.

Table 646.-- NUMBER OF DEEDS FILED AND RECORDED AND APPROXIMATE VALUE OF LAND CONVEYED: 1984 TO 1987

[Years ended June 30]

Subject	1984	1985	1986	1987
Number of deeds filed and recorded	26,938	20,490	28,518	58,598
Approximate value of land conveyed ($1,000) ..	3,585,325	3,719,659	3,893,347	7,245,393

1/ Data include leases, agreement of sales assignments, subleases, etc., as well as deeds.

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

Table 647.-- APPROXIMATE VALUE OF LAND TRANSFERS, BY COUNTIES: 1984 TO 1986

[In dollars. For calendar years. Totals include leases, agreement of sales assignments, subleases, etc., as well as deeds]

County	1984	1985	1986
State total	3,764,562,638	3,778,077,861	5,911,972,676
Honolulu	2,549,352,254	2,581,678,154	4,182,294,133
Maui	610,384,923	562,563,099	782,651,702
Hawaii	467,051,984	359,835,183	620,157,231
Kauai	137,773,477	274,001,425	326,869,610

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

Table 648.-- MORTGAGES, FORECLOSURES, AND AGREEMENTS OF SALE: 1981 TO 1986

Year	Mortgages recorded			Fore-closures 1/ ($1,000)	Mortgage assign-ments ($1,000)	Agree-ments of sale ($1,000)
	Number	Total value ($1,000)	Average value (dollars)			
1981 ...	23,156	2,285,147	98,685	1,233	3,097	1,041,662
1982 ...	18,773	2,478,992	132,051	22,674	3,143	639,263
1983 ...	29,060	3,528,800	121,431	24,443	(NA)	406,327
1984 ...	28,200	3,136,606	111,227	47,844	4,291	345,120
1985 ...	30,777	3,809,595	123,780	81,525	3,566	257,588
1986 ...	48,602	7,109,021	146,270	139,757	6,260	65,878

NA Not available.

1/ Commercial and residential projects.

Source: Data from Title Guaranty of Hawaii and Hawaii State Bureau of Conveyances, cited in the Bank of Hawaii, Construction in Hawaii, 1987 (1987), p. 30.

Table 649.-- REAL ESTATE MORTGAGE LOANS OUTSTANDING, BY TYPE OF LENDING INSTITUTION: 1982 TO 1986

[Thousands of dollars. As of December 31]

Year	All institutions	Banks	Savings, building and loan associations	Trust compa-nies 1/	Industrial loan companies	Insurance companies
1982	7,730,172	1,620,947	3,878,564	313	779,332	1,451,016
1983	7,553,924	1,714,698	3,803,628	116	589,574	1,445,908
1984	7,575,240	1,737,973	3,885,551	435	644,336	1,306,945
1985	(NA)	(NA)	(NA)	298	809,507	1,106,031
1986	(NA)	(NA)	(NA)	22	940,060	(NA)

NA Not available.

1/ Excluding mortgage loans held in trust and agency accounts.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Financial Institutions, records, and Insurance Division, Report of the Insurance Commissioner of Hawaii (annual).

Table 650.-- CHARACTERISTICS OF HOMES INSURED UNDER FHA SECTIONS 203 AND 245: 1984

[Data for 1985 have been tabulated but suppressed, because of inadequate sample size]

Subject	Proposed homes		Existing homes	
	Sec. 203	Sec. 245 1/	Sec. 203	Sec. 245 1/
Volume of FHA-insured mortgages:				
Number	242	185	927	161
Amount ($1,000)	26,471	20,643	93,755	17,971
Averages:				
Property value	$136,569	$137,519	$133,712	$126,149
Market price of site	$60,913	$61,580	$65,794	$57,250
Percent of value	45.0	45.0	48.9	45.3
Improved living area 2/ (square feet)	1,090	1,057	1,241	1,151
Age of structure 3/ (years)	...	...	15.1	10.7
Price of site per square foot	$16.38	$15.63	$10.18	$10.62
Lot size (square feet)	4,082	4,246	7,290	6,246
Mortgagor's total annual income 3/	(NA)	$40,625	(NA)	$34,000
Monthly cost of heating and utilities	$98.86	$97.00	$107.13	$100.70
Sale price per square foot 2/	$94.33	(NA)	$84.86	$79.44
Construction cost per square foot	$69.77	$71.75	...	...

NA Not available.
1/ Graduated payment mortgage program.
2/ Data based on 1-story structures.
3/ Median rather than arithmetic mean.

Source: U.S. Department of Housing and Urban Development, FHA Homes. Data for States and Selected Areas on Characteristics of FHA Operations under Section 203 (annual) and FHA Homes. Data for States and Selected Areas on Characteristics of FHA Operations under Section 245, Graduated Payment Mortgage Program (annual).

Table 651.-- ELEVATORS, ESCALATORS, AND SIMILAR FACILITIES: DECEMBER 31, 1986

Facility	State total	Oahu	Hawaii		Maui	Molo-kai	Lanai	Kauai
			Hilo	Kona				
Total	4,037	3,361	118	98	337	1	2	120
Elevators	3,445	2,844	89	91	308	-	1	112
Under 9 stories:								
Hydro	734	509	30	29	102	-	1	63
Roped	1,201	915	50	62	137	-	-	37
9 to 18 stories	903	818	9	-	64	-	-	12
19 to 28 stories	360	355	-	-	5	-	-	-
29 to 38 stories	174	174	-	-	-	-	-	-
39 stories or more	73	73	-	-	-	-	-	-
Escalators and moving walks	280	273	6	-	1	-	-	-
Inclined lifts	10	2	3	1	2	-	1	1
Manlifts	11	10	-	1	-	-	-	-
Dumbwaiters	275	225	20	2	21	1	-	6
Handicapped lift	1	1	-	-	-	-	-	-
Chair lift	7	6	-	-	-	-	-	1
Private industrial elevator	7	-	-	2	5	-	-	-
Material lift	1	-	-	1	-	-	-	-

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, Boiler and Elevator Inspection Bureau, January 12, 1987.

Table 652.-- TALLEST STRUCTURES, BY ISLANDS: 1987

Island and structure	Location	Year completed	Height	
			Stories	Feet
BUILDINGS 1/				
Hawaii:				
Bayshore Towers	Hilo	1970	15	135
Maui:				
Kalana O Maui (County Bldg.)	Wailuku	1972	9	140
Royal Lahaina Hotel	Kaanapali	1970	12	132
Oahu:				
Ala Moana Hotel 2/	410 Atkinson Drive ...	1970	38	396
Ala Wai Sunset	445 Seaside Ave.	1979	44	350
Kauai:				
Westin Kauai Hotel	Lihue	1959	10	107
OTHER STRUCTURES				
Hawaii:				
Coast Guard Loran Station	Upolu Point	1958	...	625
Maui:				
KMVI Radio Tower	Wailuku	1947	...	455
Lanai:				
Storage tanks	Manele Harbor	...	...	50
Molokai:				
KAIM Radio Tower	Kalua Koi	1981	...	410
Oahu:				
VLF Antenna	Lualualei	1972	...	1,503
Kauai:				
Communication Engineers Tower	Mana	1964	...	400
Kure Atoll:				
Loran Transmitting Tower .	Kure Atoll	1962	...	625

1/ Shown separately for the tallest in feet and also (if different) for the tallest in number of stories.

2/ Measured to top of elevator machine room; otherwise, 390 feet.

Source: Compiled by DBED from Hawaii County Dept. of Research and Development, Maui County Dept. of Public Works, City and County of Honolulu Building Dept., Kauai County Dept. of Public Works, and 14th Coast Guard District.

Table 653.-- SEATING CAPACITIES OF SELECTED STADIUMS, THEATERS, CHURCHES, AND HOTELS: 1986-1987

Facility type and name	Seating capacity
Stadiums and sports arenas:	
Aloha Stadium	50,000
Aiea High School Stadium	9,600
Neal Blaisdell Center Arena 1/	8,731
Leilehua High School Stadium	6,500
Waipahu High School Stadium	6,500
Brigham Young University-Hawaii Cannon Activity Center 2/	6,000
University of Hawaii Baseball Stadium	4,312
Theaters and auditoriums:	
Neal Blaisdell Center Arena 3/	8,780
Neal Blaisdell Center Exhibition Hall 4/	5,000
Francis Wong Stadium (Hoolulu Park Complex Multi-purpose Pavilion) 3/	4,500
Lahaina Civic Center Convention Hall 3/	4,050
Andrews Amphitheater	4,000
Hilo Civic Auditorium 3/	3,550
Waikiki Shell 2/, 5/	3,257
Neal Blaisdell Center Concert Hall	2,158
Waikiki 3 Theater 2/	1,262
Hilton Hawaiian Village Dome 2/	1,120
Kauai War Memorial Concert Theater	1,100
Waikiki 1 and 2 Theaters (each) 2/	982
Kapiolani Theater	760
Cinerama Theater	646
Kennedy Theater	600
Ruger Theater	507
Richard T. Mamiya Theatre	500
Churches:	
Kawaiahao Church	1,300
Central Union Church (Sanctuary)	800
St. Theresa Co-Cathedral	800
St. Andrew's Cathedral	750
St. Anthony	750
Cathedral of Our Lady of Peace	700
St. Augustine	700
Star of the Sea	700

Continued on next page.

Table 653.-- SEATING CAPACITIES OF SELECTED STADIUMS, THEATERS, CHURCHES, AND HOTELS: 1986-1987 -- Con.

Facility type and name	Seating capacity
Hotels (capacity in reception or theater configuration, whichever is greater):	
Hilton Hawaiian Village Coral Ballroom	5,000
Westin Ilikai Pacific Ballroom	5,000
Sheraton Waikiki Hawaii Ballroom	3,700
Hilton Hawaiian Village Tapa Room	3,400
Hilton Hawaiian Village Palace Lounge	3,200
Royal Hawaiian Monarch Room and Lanai	3,000
Westin Kauai Palace Ballroom	2,143
Hilton Hawaiian Village Coral Lounge	2,000
Pacific Beach Grand Ballroom	2,000
Maui Marriott Kaanapali Ballroom	1,700
Ala Moana Hibiscus Ballroom	1,500
Hilo Hawaiian Banquet Room	1,500
Hyatt Regency Maui Grand Ballroom	1,500
Turtle Bay Hilton & Country Club Kahuku meeting rooms 2/	1,300
Westin Ilikai Polynesia	1,500
Kona Lagoon Polynesian Longhouse	1,300
Hilton Hawaiian Village Iolani Suite	1,200
Hyatt Regency Waikiki Regency Ballroom	1,200
Kona Surf Milo and Koa Rooms	1,200
Outrigger Prince Kuhio Grand Ballroom	1,200
Westin Maui Valley Isle Ballroom	1,102
Ala Moana Americana Garden Lanai	1,000
Hawaiian Regent Hawaiian Ballroom	1,000
Hilton Hawaiian Village South Pacific Ballroom	1,000
Kauai Hilton Jasmine Ballroom 2/	1,000
Kona Surf Nalu Terrace	1,000
Princess Kaiulani Ainahau Ballroom	1,000
Waiohai Plantation Ballroom 2/	1,000

1/ Capacity in boxing configuration.
2/ Revised from Data Book 1986, table 629.
3/ Capacity in concert configuration.
4/ Capacity in reception configuration.
5/ Includes 1,299 temporary seating.

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the Honolulu Fire Department, Fire Prevention Bureau; Honolulu Building Department; officials of the facilities listed; and Hawaii Business Publishing Corporation, Discover Hawaii Meeting Planner 1987.

Section 22

MANUFACTURES

This section presents statistics on the manufacturing segment of the economy, including sugar processing and pineapple canning. Additional information on manufacturing workers appears in Sections 12 and 15.

The number of manufacturing establishments in Hawaii increased from 697 in 1967 to 966 in 1982. The value added by manufacture rose from $326 million in 1967 to $786 million in 1977 and $1,195 million in 1985. More than three-fourths of all manufacturing activity in the State in 1982 was on Oahu. Food processing -- mostly sugar and pineapple -- accounted for 46 percent of the value added by manufacture in 1985. In 1986, the general excise and use tax base was $336 million for sugar processing, $33 million for pineapple canning, and $569 million for all other manufacturing. There were two pineapple canneries and 12 sugar mills in Hawaii in 1986. The production of canned pineapple fruit and juices in 1981 (the most recent year available) was 18 million actual cases, well below the levels of earlier years. Sugar production in 1986 amounted to 1,042,000 short tons. The value of sugar production (including commercial molasses) was $362 million, compared with the record of $677 million set in 1974. Important manufactures other than food processing include apparel, printing and publishing, stone, clay, and glass products, and chemicals and allied products.

Sources for data on this subject include the United States Census of Manufactures, most recently conducted for 1982, the Annual Survey of Manufactures, publications of the Hawaii State Department of Agriculture and Department of Taxation, and the Hawaiian Sugar Planters' Association's annual report, HSPA Sugar Manual. Historical Statistics of Hawaii, Section 16, reviews the figures for earlier years. Statistics for the nation as a whole appear in Section 28 of the Statistical Abstract of the United States: 1987.

Table 654.-- STATISTICAL SUMMARY OF MANUFACTURES: 1963 TO 1982

Subject	1963	1967	1972	1977	1982
All establishments:					
Total	672	697	773	949	966
With 20 employees or more	203	215	238	231	237
All employees:					
Number (1,000)	25.1	25.4	24.8	25.0	23.6
Payroll (million dollars)	109.0	139.6	191.1	276.8	360.3
Production workers:					
Number (1,000)	18.7	19.0	17.7	17.4	16.0
Hours (millions)	33.2	35.9	33.1	31.3	29.9
Wages (million dollars) .	67.5	86.9	113.7	160.5	217.5
Value added by manufacture 1/ (million dollars)	261.1	326.2	410.0	785.5	1,119.6
Cost of materials 2/ (million dollars)	(NA)	399.6	548.3	1,176.1	2,357.5
Value of shipments 2/ (million dollars)	(NA)	723.4	955.6	1,974.0	3,443.0
New capital expenditures (million dollars)	15.4	26.0	46.7	44.4	89.4

NA Not available.

1/ Data for 1982 not directly comparable to data for earlier years; see source for discussion.

2/ Aggregate cost of materials and value of shipments include extensive duplication since products of some industries are used as materials by others.

Source: U.S. Bureau of the Census, 1985 Annual Survey of Manufactures, Geographic Area Statistics, M85(AS)-5 (March 1987), table 1, and 1977 Census of Manufactures, Hawaii, MC77-A-12 (October 1980), table 2a.

Table 655.-- STATISTICAL SUMMARY OF MANUFACTURES: 1982 TO 1985

[For intercensal data, 1971-1981, see Data Book 1983, table 564]

Subject	1982	1983	1984	1985
All establishments:				
Total	966	(NA)	(NA)	(NA)
With 20 employees or more	237	(NA)	(NA)	(NA)
All employees:				
Number (1,000)	23.6	22.6	22.5	23.0
Payroll (million dollars)	360.3	375.9	383.3	400.7
Production workers:				
Number (1,000)	16.0	14.9	15.6	15.8
Hours (millions)	29.9	29.0	29.3	28.0
Wages (million dollars) .	217.5	223.8	223.3	228.5
Value added by manufacture (million dollars)	1,119.6	1,045.9	1,046.4	1,195.3
Cost of materials 1/ (million dollars)	2,357.5	2,382.2	2,330.4	2,280.2
Value of shipments 1/ (million dollars)	3,443.0	3,414.5	3,409.6	3,477.3
New capital expenditures (million dollars)	89.4	60.6	69.4	76.1

NA Not available.

1/ Aggregate cost of materials and value of shipments include extensive duplication since products of some industries are used as materials by others.

Source: U.S. Bureau of the Census, 1985 Annual Survey of Manufactures, Geographic Area Statistics, M85(AS)-5 (March 1987), table 1.

Table 656.-- STATISTICAL SUMMARY OF MANUFACTURES, BY COUNTIES: 1982

Subject	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
All establishments 1/ (number) ...	967	780	99	25	63
With 20 employees or more	237	200	18	7	12
All employees:					
Number (1,000)	23.6	17.9	2.4	0.7	2.6
Payroll (million dollars)	360.4	279.4	37.9	12.1	30.9
Production workers:					
Number (1,000)	16.0	11.9	1.9	0.5	1.7
Hours (millions)	29.9	21.6	3.9	1.0	3.4
Wages (million dollars)	217.5	158.3	29.0	8.3	21.8
Value added by manufacture (million dollars)	1,119.6	901.5	100.6	26.6	90.8
Cost of materials 2/ (million dollars)	2,357.5	2,078.5	130.1	58.3	90.7
Value of shipments 2/ (million dollars)	3,443.0	2,947.3	229.6	84.9	181.1
New capital expenditures (million dollars)	89.4	58.4	7.5	5.9	17.6

1/ Includes establishments with payroll at any time during the year.

2/ Aggregate cost of materials and value of shipments include extensive duplication since products of some industries are used as materials by others.

Source: U.S. Bureau of the Census, *1982 Census of Manufactures, Hawaii*, MC82-A-12 (April 1985), table 4.

Table 657.-- MANUFACTURES, BY SELECTED INDUSTRY GROUP AND INDUSTRY: 1982

SIC code	Industry group and industry	Number of establishments	Number of employees (1,000)	Payroll (million dollars)	Value added by manufacture (million dollars)	Value of shipments (million dollars)
	All industries	967	23.6	360.4	1,119.6	3,443.0
20	Food and kindred products ...	221	11.1	161.2	398.6	1,079.5
202	Dairy products	10	.5	10.4	20.3	68.8
203	Preserved fruits and vegetables	34	3.3	36.1	96.7	234.0
2033	Canned fruits and vegetables	9	3.1	33.6	89.3	214.5
205	Bakery products	33	1.2	18.9	41.6	70.7
206	Sugar and confectionery products	29	3.6	61.6	159.7	428.1
2061	Raw cane sugar	13	2.9	52.9	136.1	350.3
208	Beverages	12	.5	8.6	26.9	72.3
23	Apparel and other textile products	145	3.4	31.1	56.5	106.6
232	Men's and boy's furnishings	22	.8	7.5	13.1	22.9
233	Women's and misses' outerwear	78	1.7	15.7	26.3	44.6
2335	Women's and misses' dresses	62	1.4	12.8	21.1	37.3
27	Printing and publishing	177	2.5	(D)	(D)	(D)
275	Commercial printing	93	.9	14.3	27.0	44.5
28	Chemicals and allied products	21	.3	6.3	24.8	64.4
32	Stone, clay, and glass products	53	.9	19.2	38.9	80.0
327	Concrete, gypsum, and plaster products	29	.7	16.0	30.4	64.1
34	Fabricated metal products ...	42	.7	11.8	22.9	76.4

D Withheld to avoid disclosing data for individual companies; data are included in higher level totals.

Source: U.S. Bureau of the Census, 1982 Census of Manufactures, Hawaii, MC82-A-12 (April 1985), table 5.

Table 658.-- MANUFACTURES, BY SELECTED INDUSTRY GROUP: 1985

[Includes operating manufacturing establishments and auxiliaries. Includes major groups with 150 employees or more]

SIC code	Major group	All employees Number (1,000)	All employees Payroll (million dollars)	Production workers Number (1,000)	Production workers Hours (millions)	Production workers Wages (million dollars)
	All groups	23.0	400.7	15.8	28.0	228.5
20	Food and kindred products	9.8	177.6	7.0	13.0	106.1
23	Apparel and other textile products	4.1	37.5	3.3	5.9	26.6
24	Lumber and wood products	.4	5.7	.3	.5	4.1
25	Furniture and fixtures	.4	4.6	.3	.6	3.3
26	Paper and allied products	.3	5.9	.2	.4	3.6
27	Printing and publishing	(D)	(D)	(D)	(D)	(D)
28	Chemicals and allied products	.4	8.1	.2	.3	3.6
29	Petroleum and coal products	(D)	(D)	(D)	(D)	(D)
30	Rubber and miscellaneous plastics products	(S)	(S)	(S)	(S)	(S)
32	Stone, clay, and glass products	.8	16.4	.6	1.1	11.3
34	Fabricated metal products	.8	13.5	.6	.8	10.5
35	Machinery, except electrical	.3	4.7	.2	.4	3.0
37	Transportation equipment	.3	6.1	.2	.3	4.4
39	Miscellaneous manufacturing industries	.6	6.5	.4	.7	3.7
--	Auxiliaries	.7	23.0	-	-	-

Continued on next page.

Table 658.-- MANUFACTURES, BY SELECTED INDUSTRY GROUP: 1985 - Con.

[Includes operating manufacturing establishments and auxiliaries. Includes major groups with 150 employees or more]

SIC code	Major group	Value added by manufacture (million dollars)	Cost of materials 1/ (million dollars)	Value of shipments 1/ (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
	All groups	1,195.3	2,280.2	3,477.3	76.1	341.2
20	Food and kindred products	551.3	734.7	1,276.6	38.5	125.7
23	Apparel and other textile products	82.5	62.4	148.1	2.7	23.2
24	Lumber and wood products	11.5	14.9	26.8	.1	5.0
25	Furniture and fixtures	2.0	5.9	8.1	(D)	2.9
26	Paper and allied products	16.9	23.7	40.7	1.0	3.8
27	Printing and publishing	(D)	(D)	(D)	(D)	(D)
28	Chemicals and allied products	1.2	45.4	51.8	(D)	14.4
29	Petroleum and coal products	(D)	(D)	(D)	(D)	(D)
30	Rubber and miscellaneous plastics products	(S)	(S)	(S)	(D)	(S)
32	Stone, clay, and glass products	35.1	51.7	86.9	1.7	13.9
34	Fabricated metal products	22.4	67.0	91.0	(D)	18.7
35	Machinery, except electrical	7.5	4.1	12.2	.1	2.0
37	Transportation equipment	2.7	10.9	13.7	(D)	1.5
39	Miscellaneous manufacturing industries	14.6	14.9	28.4	.1	9.5
--	Auxiliaries	-	-	-	-	-

D Withheld to avoid disclosing data for individual companies.

S Withheld because estimate did not meet publication standards.

1/ Aggregate of cost of materials and value of shipments includes extensive duplication since products of some industries are used as materials by others.

Source: U.S. Bureau of the Census, 1985 Annual Survey of Manufactures, Geographic Area Statistics, M85(AS)-5 (March 1987), table 2.

Table 659.-- PLANT CAPACITY UTILIZATION RATES: FOURTH QUARTERS, 1981 TO 1985

[Data based on limited samples and subject to high sampling variability. Comparability of 1984 rates with earlier figures is further affected by the use of a new survey sample in that year. Considerable caution is thus urged in making any year-to-year comparisons, and particularly between 1983 and 1984]

Type of rate	Fourth quarter estimates				
	1981	1982	1983	1984	1985
Preferred rate 1/	80	80	83	84	87
Practical rate 2/	73	72	73	81	83

1/ The preferred level of operations is defined as a level, normally between actual operations and practical capacity, which the manufacturer would prefer not to exceed due to costs or other considerations. In this table, the preferred utilization rate represents the ratio of actual to preferred level of operations.

2/ Practical capacity is broadly defined as the greatest output the plant could achieve within the framework of a realisic work pattern. The practical capacity utilization rate is the ratio of actual operations to the practical capacity level.

Source: U.S. Bureau of the Census, "Survey of Plant Capacity, 1982," Current Industrial Reports, MQ-C19(82)-1, November 1983, p. 19, and unpublished estimates for 1983-1985.

Table 660.-- INDUSTRIAL PARKS AND AREAS, BY ISLANDS: 1985

Subject	State total	Hawaii	Maui	Oahu	Kauai	Other islands
Number:						
Developed	33	6	4	21	2	-
Proposed	12	2	2	7	1	-
Acres:						
Developed	3,066	618	195	2,207	46	-
Proposed	1,873	1,035	330	492	16	-

Source: Hawaii State Department of Planning and Economic Development, Industrial Parks and Areas in Hawaii 1985 (1985).

Table 661.-- GENERAL EXCISE TAX BASE FOR SUGAR PROCESSING, PINEAPPLE CANNING, AND MANUFACTURING: 1976 TO 1986

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems]

Year reported 1/	Total	Sugar processing	Pineapple canning 2/	Manufacturing 3/
1976	783,751	275,078	95,488	413,186
1977 4/ ...	862,412	284,000	111,942	466,470
1978 4/ ...	917,163	291,000	131,665	494,498
1979	1,035,159	305,738	164,200	565,221
1980	1,349,149	527,379	195,766	626,004
1981	1,218,516	415,442	172,342	630,732
1982	1,033,845	317,880	185,367	530,598
1983	1,130,369	435,579	182,967	511,823
1984	1,132,078	414,211	198,266	519,601
1985	1,000,578	357,151	115,754	527,673
1986	937,840	336,334	32,974	568,532

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January and hence these annual totals generally refer to an "income year" ended November 30.

2/ Decline after 1984 reflects in part the exemption of exported pineapple produced by two companies from the general excise tax, effective August 1, 1985 and April 30, 1986, when they were granted foreign trade subzone status.

3/ Excludes sugar processing, pineapple canning, and petroleum refining.

4/ Partly estimated.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 662.-- PINEAPPLE COMPANIES AND CANNERIES AND SUGAR COMPANIES AND MILLS: 1940 TO 1986

Year	Pineapple (end of canning season)		Sugar (December 31)	
	Companies 1/	Canneries	Companies 2/	Mills
1940	8	8	38	34
1945	7	7	36	32
1950	9	8	28	26
1955	10	8	28	26
1960	8	9	27	27
1965	6	6	25	27
1970	4	4	23	26
1975	3	3	16	17
1980	3	3	15	14
1985	3	2	14	12
1986	3	2	14	12
ISLANDS: 1986				
Hawaii	-	-	4	4
Maui	1	1	3	2
Oahu	2	1	2	2
Kauai	-	-	5	4

1/ Data include Del Monte, which now sells only fresh pineapple.

2/ Excludes cooperatives.

Source: Pineapple Growers Association of Hawaii, records; Hawaiian Sugar Planters' Association, records.

Table 663.-- EMPLOYMENT IN THE PINEAPPLE AND SUGAR INDUSTRIES: ANNUAL AVERAGES, 1985 AND 1986

Year	Pineapple			Sugar		
	Total	Field	Cannery	Total	Field	Mill
1985	3,850	1,950	1,900	7,550	4,100	3,450
1986	4,050	2,050	2,000	7,300	4,000	3,300

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book, as revised April 1987.

Table 664.-- HAWAIIAN PINEAPPLE PRODUCTION: 1977-1978 TO 1981

[In thousands. Pack year ended May 31 through 1978-1979 and calendar years 1979, 1980, and 1981. Hawaiian pack only; excludes overseas production by Hawaiian companies. Compilation of these statistics was suspended after 1981]

Year	Canned fruit		Canned juice		Frozen concentrate	
	Actual cases	Standard cases 1/	Actual cases	Standard cases 2/	Equivalent 6/10 cases	Standard cases 2/
1977-1978 ..	12,482	8,490	8,403	5,750	294	270
1978-1979 ..	11,142	7,620	7,386	5,760	290	265
1979	10,930	7,470	7,699	6,010	308	280
1980	9,918	6,940	8,114	6,410	237	215
1981	9,759	6,830	7,997	6,320	219	200

1/ 24 No. 2 1/2 can, 45-lb. cases.
2/ 24 No. 2 1/2 can, 42 1/2-lb. cases.
Source: The Pineapple Growers Association of Hawaii, records; Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 665.-- SUGAR AND MOLASSES PRODUCTION: 1967 TO 1986

Year	Cane land (acres)		Cane used for sugar (short tons)	Sugar produced (short tons)		Molasses produced (short tons)
	Total area	Harvested area 1/		96° raw value	Equivalent refined	
1967 ...	239,813	111,837	11,045,949	1,191,042	1,113,148	359,170
1968 ...	242,476	113,525	11,279,920	1,232,182	1,151,597	368,050
1969 ...	242,216	113,232	10,839,272	1,182,414	1,105,060	340,330
1970 ...	238,997	113,816	10,457,377	1,162,071	1,086,000	322,480
1971 ...	232,278	115,810	10,685,019	1,229,976	1,149,510	330,227
1972 ...	229,611	108,456	9,929,068	1,118,883	1,045,708	307,543
1973 ...	226,580	108,189	9,645,452	1,128,529	1,054,723	301,500
1974 ...	224,227	95,826	9,082,684	1,040,742	972,677	293,380
1975 ...	221,426	105,125	9,485,299	1,107,199	1,034,788	301,335
1976 ...	221,551	99,926	9,172,649	1,050,457	981,757	275,352
1977 ...	220,729	96,770	8,994,388	1,033,739	966,132	284,349
1978 ...	220,697	99,355	9,263,190	1,028,933	961,641	310,238
1979 ...	218,773	100,610	9,632,135	1,059,737	990,430	325,843
1980 ...	217,718	97,358	9,214,136	1,023,232	956,313	315,088
1981 ...	216,099	97,573	8,831,477	1,047,541	979,032	311,719
1982 ...	204,749	89,261	8,807,998	982,913	918,630	287,190
1983 ...	194,258	92,808	8,926,358	1,044,204	975,913	303,254
1984 ...	188,396	89,541	8,453,721	1,061,814	992,371	314,202
1985 ...	187,858	83,029	7,916,459	1,012,249	946,048	271,645
1986 ...	184,181	83,583	8,379,463	1,042,452	974,276	290,422

1/ The average growth of a crop is 22 to 26 months. Only a portion of the total acreage in cane is harvested each year.

Source: Hawaiian Sugar Planters' Association, HSPA Sugar Manual (annual).

Table 666.-- AVERAGE RAW SUGAR PRICE AND SUGAR INDUSTRY EMPLOYMENT AND EARNINGS: 1967 TO 1986

Year	Average raw sugar price 1/ (cents per lb.)	Hourly-rated employees		Industry-wide strikes (weeks)	Average daily earnings 2/ (dollars)	
		Average number 3/	Total man-days		Cash wages	Employee benefits
1967 ...	7.28	9,756	2,346,197	-	21.35	7.50
1968 ...	7.52	9,481	2,282,654	-	21.62	8.40
1969 ...	7.75	9,213	2,066,244	5	23.26	9.76
1970 ...	8.08	8,908	2,139,183	-	24.24	10.00
1971 ...	8.52	8,610	2,077,011	-	26.08	10.27
1972 ...	9.10	8,127	1,934,563	-	29.09	11.23
1973 ...	10.30	7,900	1,897,369	-	30.86	12.48
1974 ...	29.43	7,700	1,744,346	6	34.41	15.81
1975 ...	22.49	7,800	1,937,973	-	37.34	15.66
1976 ...	13.31	7,500	1,854,272	-	43.12	17.28
1977 ...	11.11	7,200	1,660,298	3	43.92	19.97
1978 ...	13.74	7,200	1,771,530	-	47.06	21.28
1979 ...	15.20	7,065	1,762,838	-	50.49	22.21
1980 ...	30.18	7,076	1,793,237	-	56.72	24.68
1981 ...	19.74	7,282	1,806,020	-	61.51	27.71
1982 ...	19.94	6,816	1,519,732	-	65.11	30.83
1983 ...	22.04	6,543	1,565,928	-	66.80	32.00
1984 ...	21.74	6,319	1,467,127	-	68.88	34.71
1985 ...	20.39	5,751	1,323,525	-	68.72	35.99
1986 ...	20.90	5,413	1,290,067	-	69.28	34.24

1/ Average New York raw sugar price computed over all the days of the year (Hawaiian basis). The New York spot price was suspended from November 2, 1977 to August 20, 1979; figures for that period are based on Clearing Association settlement prices. New York spot price "nearby futures" used beginning June 1985.

2/ For non-supervisory employees.

3/ Adults only.

Source: Hawaiian Sugar Planters' Association, HSPA Sugar Manual (annual), as revised and updated.

Table 667.-- VALUE OF SALES AND GOVERNMENT PAYMENTS FOR PINEAPPLE AND SUGAR PRODUCTION: 1970 TO 1986

[In millions of dollars. Calendar year data unless otherwise specified]

Year	Pineapple		Sugar		
			Value of production		Government sugar support payments
	Canned fruit and juices 1/	Fresh market sales 2/	Raw sugar 96°	Commercial molasses	
1970 ..	135.0	3.60	180.7	7.1	10.3
1971 ..	137.7	3.70	196.3	6.7	10.7
1972 ..	140.5	4.90	176.6	8.1	9.7
1973 ..	135.0	7.40	203.8	18.4	9.5
1974 ..	118.2	8.85	659.2	17.4	8.6
1975 ..	126.6	10.08	354.6	11.5	-
1976 ..	130.0	14.49	245.5	11.5	-
1977 ..	140.0	21.58	219.1	7.7	48.7
1978 ..	133.4	29.45	269.5	15.7	8.1
1979 ..	176.3	30.08	322.2	23.5	-
1980 ..	192.2	34.34	566.4	27.7	-
1981 ..	172.0	45.63	314.2	13.7	-
1982 ..	156.1	49.92	343.9	7.6	-
1983 ..	171.6	47.40	396.5	13.7	-
1984 ..	202.0	47.60	382.9	10.1	-
1985 ..	171.7	50.84	331.9	8.9	-
1986 ..	188.5	53.46	348.4	13.5	-

1/ Value of canned fruit and juices and by products shipped out-of-State and sold within State. Prior to 1979, data are for pack years beginning June 1.

2/ Value FAS shipping point for outshipments, delivered wholesalers local sales.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual) and records.

Section 23

DOMESTIC TRADE AND SERVICES

This section presents statistics relating to retail and wholesale trade; hotels; and selected personal, business, automotive, repair, and amusement services. Related data are included in Sections 7, 12, 14 and 15.

These activities have undergone rapid growth in recent decades, in part because of higher price levels. Retail sales increased from $751 million in 1963 to $1.9 billion in 1972 and $5.2 billion in 1982. Wholesale sales rose from $1.6 billion in 1972 to $4.1 billion in 1982. Hotels, amusements, and other services reported receipts exceeding $2.6 billion in 1982, compared with $665 million in 1972. General excise and use tax base data for more recent years indicate continued increases; between 1982 and 1986, the retailing tax base rose 34 percent, the wholesaling base by 39 percent, and the base for services by 46 percent. Major retail concentrations include Waikiki, Ala Moana Center, Pearlridge Center, and downtown Honolulu. In addition to civilian retail outlets, there are many commissaries, exchanges, clubs, package stores, gasoline stations and food services maintained by the armed forces; these facilities had sales of $454 million in 1986.

Growth has been especially rapid for hotels and related facilities. The number of units in the State rose from 6,800 in 1959 to 37,000 in 1973 and 65,000 in 1987. There were 510 hotels, motels and apartment-hotels in Hawaii on the latter date, including 307 on the Neighbor Islands. One-third of all transient units were in condominium structures. Occupancy rates averaged 86 percent in Waikiki and 75 percent on the Neighbor Islands during 1986. The average daily room rate was $73 in 1986. Total hotel rentals in 1986 exceeded $1.2 billion, or $28,000 per unit.

Eighty-one feature motion pictures and television specials and series were filmed in Hawaii in 1986, accounting for local expenditures of $35 million.

The major source of these data are the United State Censuses of Retail Trade, Wholesale Trade, and Service Industries, most recently published for 1982. Statistics on the retailing, wholesaling, and services tax bases are available from the Hawaii State Department of Taxation. Data on hotel room counts, occupancy and other characteristics are published by the Hawaii Visitors Bureau and the firm of Pannell Kerr Forster. The Film Industry Branch of the Department of Business and Economic Development compiles data on motion picture and television production. A summary of figures on trade and services in earlier years appears in Historical Statistics of Hawaii, Section 20. The Statistical Abstract of the United States: 1987, Section 29, presents similar data for other states and the nation as a whole.

Table 668.-- RETAIL TRADE, WHOLESALE TRADE, AND SELECTED SERVICES: 1958 TO 1982

[Excludes establishments on military bases]

Year	Retail trade		Wholesale trade		Selected services	
	Establishments	Sales ($1,000)	Establishments	Sales ($1,000)	Establishments	Receipts ($1,000)
1958 (1963 def.)	4,760	516,177	793	618,155	3,070	101,142
1963	4,578	751,411	974	735,205	3,431	163,094
1967	5,212	1,083,458	1,030	1,013,813	4,057	310,290
1972 (1967 def.)	6,416	1,881,516	1,311	1,511,398	5,570	583,289
1972 (1972 def.)	6,392	1,864,985	1,336	1,538,429	6,348	683,201
1972 (1977 def.)	5,880	1,859,929	1,337	1,561,654	6,348	664,857
1977 (1977 def.)	7,388	3,294,118	1,569	2,571,489	8,023	1,276,163
1977 (1982 def.)	7,477	3,296,714	1,569	2,571,489	(1/)	(1/)
1982	8,917	5,193,406	1,737	4,084,369	(1/)	(1/)

1/ Comparable data not available. Service establishments with payroll and subject to Federal income tax numbered 6,124 in 1982, with receipts of $2,659,651,000.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), pp. 513, 524, and 526. U.S. Bureau of the Census 1977 Census of Retail Trade, RC77-A-12, table 2; 1977 Census of Wholesale Trade, WC77-A-12 (Revised), table 2; 1977 Census of Service Industries, SC77-A-12, table 2; 1982 Census of Retail Trade, RC82-A-12, table 2; 1982 Census of Wholesale Trade, WC82-A-12, table 2; 1982 Census of Service Industries, SC82-A-12, table 1a.

Table 669.-- GENERAL EXCISE TAX BASE FOR TRADE AND SERVICE ACTIVITIES: 1976 TO 1986

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems]

Year reported 1/	Retailing	Services 2/	Theater, amusement, broadcasting, etc.	Wholesaling
1976	3,724,487	978,091	82,134	1,721,874
1977 3/ ...	4,222,169	1,095,066	92,827	1,989,981
1978 3/ ...	4,774,076	1,222,996	104,085	2,158,707
1979	5,519,889	1,412,195	109,143	2,800,951
1980	6,109,628	1,743,003	121,562	2,986,877
1981	6,700,750	1,809,913	129,501	3,528,763
1982	6,874,963	1,905,068	130,280	3,207,768
1983	7,438,193	2,134,524	144,095	3,694,220
1984	8,111,893	2,368,415	153,723	4,025,324
1985	8,499,254	2,481,669	154,830	4,095,220
1986	9,239,373	2,784,169	159,881	4,443,166

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

2/ Includes both business and professional services but excludes hotels, theater, amusement, broadcasting, and intermediary services.

3/ Partly estimated.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 670.-- CHARACTERISTICS OF RETAIL ESTABLISHMENTS, FOR THE STATE, 1977 AND 1982, AND OAHU AND THE NEIGHBOR ISLANDS, 1982

[Excludes establishments on military bases]

Subject	1977 1/	1982		
		State total	Oahu	Neighbor islands
All establishments:				
Number	7,477	8,917	6,347	2,570
Sales ($1,000)	3,296,714	5,193,406	3,962,598	1,230,808
Unincorporated businesses (number):				
Individual proprietorships	3,120	3,656	2,591	1,065
Partnerships	516	556	392	164
Establishments with payroll:				
Number	5,273	6,139	4,318	1,821
Sales ($1,000)	3,225,311	5,101,671	3,898,767	1,202,904
Annual payroll ($1,000)	458,782	696,438	539,170	157,268
First quarter payroll ($1,000)	111,143	164,950	127,260	37,690
Paid employees for pay period including March 12 (number)	72,098	81,979	63,620	18,359

1/ The 1977 data on total establishments, total sales, sales of establishments with payroll, and annual payroll have been revised for comparability with the 1982 data; the 1977 data on unincorporated businesses, number of establishments with payroll, first quarter payroll, and paid employees are unrevised. Unrevised figures for those data subsequently revised are as follows: total establishments, 7,388; total sales, $3,294,118,000; sales of establishments with payroll, $3,222,715,000; annual payroll, $460,322,000.

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, Hawaii, RC77-A-12 (June 1979), table 1; 1982 Census of Retail Trade, Hawaii, RC82-A-12 (September 1984), tables 1, 2, 4, and 5.

Table 671.-- RETAIL TRADE FOR COUNTIES AND FOR PLACES WITH 2,500 INHABITANTS OR MORE: 1982

[Excludes establishments on military bases]

Geographic area	All establishments		Establishments with payroll	
	Number	Sales ($1,000)	Number	Sales ($1,000)
State total	8,917	5,193,406	6,139	5,101,671
Hawaii County	1,039	492,154	738	481,664
Hilo	445	285,856	345	283,381
Kailua	216	103,003	162	100,759
Balance of county	378	103,295	231	97,524
Honolulu County	6,347	3,962,598	4,318	3,898,767
Ahuimanu	16	(D)	6	(D)
Aiea	274	254,358	189	252,013
Ewa	6	(D)	4	(D)
Ewa Beach	45	10,100	17	9,604
Hauula	13	5,304	6	5,269
Heeia	10	341	-	-
Hickam Housing	-	-	-	-
Honolulu	4,595	2,859,473	3,280	2,813,522
Iroquois Point	-	-	-	-
Kahaluu	5	(D)	1	(D)
Kailua	244	152,715	154	150,387
Kaneohe	220	182,230	138	180,237
Laie	13	1,738	2	(D)
Maile	7	2,783	6	(D)
Makaha	10	3,702	4	3,633
Makakilo City	15	2,599	5	2,424
Maunawili	19	1,643	4	1,569
Mililani Town	59	23,226	20	22,233
Mokapu	1	(D)	1	(D)
Nanakuli	16	10,567	11	10,469
Pearl City	186	122,823	90	120,958
Schofield Barracks ...	3	1,430	3	1,430
Wahiawa	140	55,200	89	54,208
Waialua	14	4,717	8	(D)
Waianae	56	41,490	38	41,148
Waimanalo	33	14,349	23	14,062
Waimanalo Beach	1	(D)	-	-
Waipahu	196	133,233	123	130,512
Waipio Acres	4	331	2	(D)
Balance of county	146	57,318	94	55,667

Continued on next page.

Table 671.-- RETAIL TRADE FOR COUNTIES AND FOR PLACES WITH 2,500 INHABITANTS OR MORE: 1982 -- Con.

Geographic area	All establishments		Establishments with payroll	
	Number	Sales ($1,000)	Number	Sales ($1,000)
Kauai County	539	219,418	365	211,628
Hanamaulu	6	1,011	4	(D)
Kalaheo	14	2,724	5	2,334
Kapaa	150	47,147	102	45,487
Kekaha	10	2,146	4	1,998
Lihue	168	100,040	131	97,769
Balance of county	191	66,350	119	(D)
Maui County	992	519,236	718	509,612
Island of Lanai	11	3,728	9	(D)
Island of Molokai	45	14,147	30	13,852
Kahului	183	161,665	138	159,831
Kihei	85	42,021	56	41,442
Lahaina	309	138,309	251	135,396
Makawao	22	4,840	5	4,213
Pukalani	24	8,715	16	(D)
Wailuku	147	61,074	96	60,051
Balance of county	166	84,737	117	82,869

(D) Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, 1982 Census of Retail Trade, Hawaii, RC82-A-12 (September 1984), table 8.

Table 672.-- RETAIL TRADE, BY KIND OF BUSINESS: 1982 AND 1977

[Limited to establishments with payroll. Excludes establishments on military bases]

SIC code	Kind of business	Number of establishments, 1982	Sales		
			1982 ($1,000)	1977 ($1,000)	Percent change
	Retail trade	6,139	5,101,671	3,225,311	58.2
52	Building materials, hardware, garden supply	126	149,622	75,697	97.7
53	General merchandise	153	657,247	581,366	13.1
54	Food stores	797	1,081,175	651,163	66.0
55 ex. 554	Automotive dealers	227	540,566	458,497	17.9
554	Gasoline service stations ..	366	400,141	173,075	131.2
56	Apparel and accessory stores	793	379,746	208,514	82.1
57	Furniture, home furnishings, and equipment stores	335	160,828	98,135	63.9
58	Eating and drinking places .	1,741	872,558	478,966	82.2
591	Drug and proprietary stores	121	337,590	178,392	89.2
59 ex. 591	Miscellaneous retail stores	1,480	522,198	321,506	62.4

Source: U.S. Bureau of the Census, 1982 Census of Retail Trade, Hawaii, RC82-A-12 (September 1984), tables 1 and 2.

Table 673.-- MERCHANDISE LINE SALES OF RETAIL ESTABLISHMENTS WITH PAYROLL, FOR THE STATE AND OAHU: 1982

Merchandise line	Number of establishments		Sales ($1,000)	
	State total	Oahu	State total	Oahu
Total retail trade 1/	6,139	4,318	5,101,671	3,898,767
Groceries and other foods	1,127	760	908,817	638,919
Meals and snacks	1,852	1,394	762,547	615,707
Alcoholic drinks	892	650	139,845	108,396
Packaged alcoholic beverages	616	407	150,107	112,975
Cigars, cigarettes, and tobacco	717	482	63,754	49,745
Drugs, health aids, and beauty aids	674	433	265,268	208,242
Men's and boys' clothing exc. footwear	816	500	186,809	146,419
Women's and girls' wear exc. footwear	977	608	358,826	285,930
Footwear exc. infants and toddlers	494	320	67,200	55,486
Sewing, knitting, and needlework goods	178	95	25,803	19,439
Curtains, draperies, and dry goods	223	118	33,762	26,956
Major household appliances	173	104	47,975	34,574
Small electric appliances	202	124	31,128	22,813
TVs and video recorders and tapes	156	104	23,670	18,699
Audio equipment and musical instruments and supplies	270	173	47,674	38,482
Furniture and sleep equipment	185	128	73,472	55,307
Floor coverings	122	70	15,436	10,450
Kitchenware and home furnishings	430	270	54,895	43,674
Jewelry	860	584	165,600	137,562
Optical goods	103	73	10,010	8,550
Sporting goods	313	202	56,792	44,229
Hardware, tools, and plumbing and electrical supplies	253	130	56,361	37,555
Lawn and garden equipment and supplies	311	183	51,630	37,276
Lumber and building materials	152	82	100,242	54,935
Cars, trucks, and powered vehicles	97	69	391,570	320,107
Automotive fuels	425	286	365,151	274,029
Automotive lubricants	428	282	10,627	7,539
Auto tires, batteries, and accessories	518	343	121,699	84,532
All other merchandise	1,220	787	354,915	277,014
Unclassified merchandise	634	434	30,577	24,303
Nonmerchandise receipts	923	676	127,232	96,847
Miscellaneous merchandise	(X)	(X)	2,277	2,076

X Not applicable.

1/ Because some establishments carry more than one merchandise line, the number of establishments for each line will not add to the indicated totals.

Source on next page.

Table 673.-- MERCHANDISE LINE SALES OF RETAIL ESTABLISHMENTS WITH PAYROLL, FOR THE STATE AND OAHU: 1982 -- Con.

Source: U.S. Bureau of the Census, Census of Retail Trade: Merchandise Line Sales, Hawaii, 1982 (unpublished tabulations filed in the Hawaii State Department of Business and Economic Development Library); cited in Hawaii State Department of Planning and Economic Development, Merchandise Line Sales in Hawaii, 1982 (Statistical Report 185, February 24, 1986).

Table 674.-- RETAIL SALES, BY TYPE OF STORE: 1982 AND 1985

[In millions of dollars. Data are estimates]

Type of store	1982	1985
Total 1/	5,193	6,683
Food stores	1,101	1,282
Supermarkets	976	1,140
General merchandise stores	659	843
Department stores	445	574
Automotive dealers	551	896
Eating and drinking places	880	1,172
Gasoline service stations	411	410
Apparel and accessories stores	383	555
Building materials, hardware dealers	154	199
Furniture, appliance, home furnishings	167	218
Furniture	59	67

1/ Includes other types of stores, not shown separately.
Source: Market Statistics data cited in Statistical Abstract of the United States: 1987, pp. 760-761.

Table 675.-- CHARACTERISTICS OF TEN LARGEST RETAILERS: 1983-1984

Name	Number of stores, 1984	Number of employees, 1984	Sales (mil. dol.) 1984	Sales (mil. dol.) 1983	Store area, 1984 (1,000) sq. ft.)
Foodland	28	1,270	213	205	735
Liberty House	50	(NA)	208	193	(NA)
Duty Free (Hawaii Division)	4	1,200	182	167	(NA)
Times Super Market	14	950	*170	*126	(NA)
Sears Roebuck	6	2,000	*130	(NA)	850
Servco Pacific	1/ 2	(NA)	130	102	(NA)
Safeway Stores	12	800	130	104	336
Longs Drugs	16	>1,000	*118	(NA)	*240
Daiei (USA)	4	780	100	87	411
Star Markets	9	550	95	94	300

* Estimated.
NA Not available.
1/ Retail stores only.
Source: Hawaii Business, December 1985, p. 46.

Table 676.-- DEPARTMENT STORE SALES, FOR OAHU: 1982 TO 1985

[For earlier years, 1948-1982, see Data Book 1984, table 672. This survey was discontinued after April 1986]

Subject	1982	1983	1984	1985
Number of department stores, Dec.	21	(NA)	23	22
Department store sales 1/ ($1,000) ...	453,656	505,294	527,935	548,771

NA Not available.
1/ Includes sales of leased departments.
Source: U.S. Bureau of the Census, 1982 Census of Retail Trade, Hawaii, RC82-A-12 (Sept. 1984), table 4; "Revised Monthly Retail Sales and Inventories, January 1975 through December 1984," Current Business Reports, BR-13-85 (April 1985), p. 54; "Monthly Retail Trade, Sales and Inventories, December 1985," Current Business Reports, BR-85-12 (Feb. 1986), tables 8 and 8A.

Table 677.-- EATING PLACES AND DRINKING PLACES: 1982

[Data limited to establishments with payroll. Excludes establishments on military bases]

Subject	Restaurants and lunchrooms	Cafeterias	Refreshment places	Drinking places
All establishments:				
Number of establishments	773	26	545	300
Seating capacity	81,891	2,037	22,228	(NT)
Sales ($1,000)	466,188	9,588	262,001	63,043
With waiter or waitress service:				
Number of establishments	773	6	96	290
Sales ($1,000)	466,188	1,061	44,004	61,136
Establishments by average cost per meal:				
Under $2.00	9	-	83	...
$2.00 to $4.99	350	23	406	...
$5.00 to $9.99	232	3	56	...
$10.00 or more	182	-	-	...
Establishments by primary type of food service:				
Table, booth, counter seat with waiter/ waitress service	773	-	59	...
Order and pay at counter with inside seating	-	-	272	...
Cafeteria line with inside seating	-	26	1	...
Take out/drive through	-	-	182	...
Other	-	-	31	...
Franchise holders:				
Number of establishments	48	(NT)	120	(NT)
Sales ($1,000)	31,158	(NT)	60,831	(NT)

NT Not tabulated.

Source: U.S. Bureau of the Census, 1982 Census of Retail Trade, RC82-I-4, Miscellaneous Subjects (June 1985), tables 7, 9, 11, and 14.

Table 678.-- RESTAURANT CHARACTERISTICS: 1983

[Based on a survey of 1,768 restaurants]

Subject	Percent
Island, total	100.0
Oahu	71.7
Other islands	28.3
Locality, total	100.0
Business district	33.8
Tourist area	24.9
Other	41.3
Type of service, total	100.0
Fast food	27.3
Family	21.6
Other	51.1
Price, total	100.0
Inexpensive	44.2
Moderate	51.8
Expensive	4.0
Ownership, total	100.0
Independent	65.4
Chain-owned	11.6
Other types	23.0
Types of food: 1/	
American	64.4
Japanese	25.8
Chinese	19.8
Seafood	14.8
Hawaiian	14.5
Continental	12.3
Italian	11.1
Korean	8.5
Filipino	7.6
Mexican	7.1
Meals served, total	100.0
All 3 meals	36.8
Lunch and dinner only	34.0
Breakfast and lunch only	10.5
Other combinations	18.7
Average check, total	100.0
$3.00 or less	27.7
$3.01 to $6.00	37.7
$6.01 to $10.00	18.2
$10.01 or more	16.4
Average amount	$6.44
Liquor served, total	100.0
None	52.8
Liquor, beer, and wine	39.3
Other combinations	7.9
Annual food/beverage sales, total	100.0
Under $100,000	25.1
$100,000 to $299,999	26.3
$300,000 to $999,000	29.3
$1,000,000 and over	19.3
Percent of sales to tourists, total	100.0
Under 10	48.1
10 to 49	24.5
50 or more	27.5
Average number of years in business	10.0
Average number of food and beverage employees	23.9
Full-time	13.8

1/ Multiple responses.

Source: Morton Fox and Danny Breatchel, Survey of the Hawaii Restaurant Industry (University of Hawaii at Manoa, School of Travel Industry Management, 1984).

Table 679.- EMPLOYMENT IN EATING AND DRINKING PLACES: 1964 TO 1986

[Annual average employment for workers covered by the Hawaii Employment Security Law]

Year	Employment	Year	Employment	Year	Employment
1964 ...	10,953	1972 ...	20,314	1980 ...	34,459
1965 ...	12,149	1973 ...	22,449	1981 ...	34,911
1966 ...	13,071	1974 ...	23,963	1982 ...	34,508
1967 ...	14,355	1975 ...	24,988	1983 ...	35,764
1968 ...	14,921	1976 ...	26,678	1984 ...	37,628
1969 ...	16,474	1977 ...	28,792	1985 ...	40,171
1970 ...	18,022	1978 ...	31,792	1986 ...	41,587
1971 ...	18,698	1979 ...	33,500		

Source: Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual).

Table 680.-- LIQUOR AND TOBACCO TAX BASES: 1982 TO 1986

[Wholesale value, in thousands of dollars. By calendar year in which reported; data accordingly refer in general to liquor and tobacco sales for 12-month periods ended November 30. Excludes sales on military bases]

Tax	1982	1983	1984	1985	1986
Liquor tax base 1/	149,859	145,935	143,668	161,107	(2/)
Base for taxes paid	34,865	14,009	57,621	70,352	(2/)
Base for taxes contested	114,994	131,927	86,047	90,755	(2/)
Tobacco tax base	37,338	49,580	48,262	47,188	51,796

1/ In 1979, several major distributors legally contested the State liquor tax law. Tax revenues that otherwise would have been collected under this law were held in escrow until the courts ruled on the case.

2/ As of July 1, 1986, the excise tax on liquor was replaced by a gallonage tax.

Source: Hawaii State Department of Taxation, "Liquor Tax Base, Collections and Permits; Tobacco Tax Base, Collections and Licenses" (annual release), and records.

Table 681.-- APPARENT CONSUMPTION OF ALCOHOL BEVERAGES, TOTAL AND PER CAPITA, BY TYPE OF BEVERAGE: 1980 TO 1985

Year	Total (1,000 gallons)			Per capita 1/ (gallons)		
	Distilled spirits	Wine	Beer	Distilled spirits	Wine	Beer
1980	2,175	2,685	27,621	2.1	2.5	26.2
1981	2,165	2,628	29,633	2.0	2.5	27.8
1982	2,155	2,879	31,149	2.0	2.6	28.6
1983	2,180	2,727	33,325	2.0	2.4	29.9
1984	1,803	2,593	29,803	1.6	2.3	26.2
1985	1,762	2,681	29,195	1.5	2.3	25.4

1/ Based on de facto population estimates in the Hawaii State Department of Planning and Economic Development, Statistical Report 201.

Source: Distilled Spirits Council of the United States, Inc., Public Revenues from Alcohol Beverages (annual), Annual Statistical Review (annual), and letter dated August 5, 1987.

Table 682.-- FLOOR SPACE FOR SELECTED KINDS OF RETAIL BUSINESS: 1982

[Data limited to establishments with payroll. Excludes establishments on military bases]

Kind of business	Number of establishments	Sales ($1,000)	Under-roof floor space (1,000 sq. ft.)		Sales per square foot of selling space (dollars)	Selling space as percent of total floor space
			Total	Selling		
Department stores 1/ ...	24	444,778	2,058	1,332	334	64.7
Variety stores	38	75,993	759	554	137	73.0
Grocery stores	502	961,227	3,168	2,278	422	71.9

1/ Excluding leased departments.

Source: U.S. Bureau of the Census, 1982 Census of Retail Trade, RC82-I-4, Miscellaneous Subjects (June 1985), table 26.

Table 683.-- CHARACTERISTICS OF MAJOR SHOPPING CENTERS: 1985

[Includes all centers on Oahu with more than 200,000 square feet of building area and all centers on other islands with more than 100,000 square feet of building area]

Island and name of center	Location	Year opened	Site area (acres)	Gross lease-able area (1,000 square feet)	Parking spaces	Number of stores
Oahu:						
Ala Moana Center ...	Honolulu	1959	50	1,500	7,800	155
Kahala Mall	Honolulu	1970	22	370	1,425	60
Pearl City S. C. ...	Pearl City	1965	15	249	871	60
Pearlridge Center ..	Aiea	1972	54	1,200	4,915	150
Royal Hawaiian S. C.	Honolulu	1981	6	280	600	(NA)
Waikiki Shopping Plaza	Honolulu	1977	1	300	300	50
Windward City S.C.	Kaneohe	1959	15	210	(NA)	40
Windward Mall	Kaneohe	1982	32	530	2,300	98
Hawaii:						
Kaiko'o Mall S. C. .	Hilo	1970	14	220	950	33
Maui:						
Kaahumanu Center ...	Kahului	1973	25	300	1,400	50
Kahului S. C.	Kahului	1951	17	104	1,000	30
Maui Mall	Kahului	1971	25	182	1,400	38
Kauai:						
Kukui Grove Center	Lihue	1982	35	311	1,590	52
Lihue S. C.	Lihue	1966	9	142	551	24

NA Not available.

Source: Hawaii Chapter, International Council of Shopping Centers, and the Chamber of Commerce of Hawaii, Hawaii Shopping Center Directory, 1985 Edition.

Table 684.-- MAJOR RETAIL CENTERS, FOR OAHU: 1972 TO 1982

[These tabulations were discontinued after 1982]

Geographic area	Number of retail establishments			Retail sales ($1,000)		
	1972	1977	1982	1972	1977	1982
Oahu total 1/ .	4,235	5,262	6,347	1,489,602	2,574,973	3,962,598
Honolulu CBD: 2/						
1972 definition ..	353	415	(NA)	65,471	94,811	(NA)
1977 definition ..	(NA)	485	523	(NA)	122,873	177,254
Ala Moana Center ...	224	187	196	218,844	307,498	423,895
Waikiki 3/	597	646	1,082	169,084	307,233	600,615
Kahala Mall	60	55	54	41,625	47,407	*82,977
Pearlridge Center ..	32	102	133	18,606	118,867	*173,953

* Excludes establishments without payroll (Kahala Mall, 1; Pearlridge Center, 3).

NA Not available.

1/ Includes establishments not in major retail centers.

2/ The Honolulu Central Business District was redefined in 1977 to include the area bounded by Nuuanu Stream, School Street, Queen Emma Street, Beretania Street, Richards Street, Halekauwila Street, and Honolulu Harbor. Before 1977, the CBD as defined excluded that part between Beretania Street and School Street. For comparable statistics back to 1948, see DPED Statistical Memorandum 80-7 (July 31, 1980).

3/ Waikiki is defined as the area bounded by the Ala Wai Canal, Kapahulu Avenue, and the Pacific Ocean.

Source: Hawaii State Department of Planning and Economic Development, Retail Trade in Downtown Honolulu, 1948-1977 (Statistical Memorandum 80-7, July 31, 1980). U.S. Bureau of the Census, 1972 Census of Retail Trade, Major Retail Centers, Hawaii, RC72-C-12 (November 1974), table 1; 1977 Census of Retail Trade, Major Retail Centers, Hawaii, RC77-C-12 (February 1980), table 1; 1982 Census of Retail Trade, Major Retail Centers, Hawaii, RC82-C-12 (October 1984), table 1.

Table 685.-- PERCENT OF OAHU RETAIL SALES IN MAJOR RETAIL CENTERS: 1948 TO 1982

[These series were discontinued after 1982]

Year	Honolulu CBD 1/		Ala Moana Center	Waikiki	Kahala Mall	Pearlridge Center
	1972 defin.	1977 defin.				
1948	24.4	27.5	...	5.4	...	...
1954	19.7	(NA)	...	(NA)	(NA)	...
1958	15.4	(NA)	...	7.7	1.0	...
1963	9.1	9.5	10.8	7.6	(NA)	...
1967	6.1	(NA)	13.6	9.3	1.8	...
1972	4.4	(NA)	14.7	11.4	2.8	1.2
1977	3.7	4.8	11.9	11.9	1.8	4.6
1982	(NA)	4.5	10.7	15.2	*2.1	*4.5

*Based on data limited to establishments with payroll.
NA Not available.
1/ See preceding table, footnote 1.
Source: Hawaii State Department of Planning and Economic Development, Major Retail Centers on Oahu, 1972-1982 (Statistical Memorandum 84-4, November 14, 1984), table 2.

Table 686.-- RETAIL SALES, BY KIND OF BUSINESS, FOR MAJOR RETAIL CENTERS ON OAHU: 1982

[In millions of dollars. Excludes establishments without payroll]

Kind of business	Honolulu CBD	Ala Moana Center	Waikiki	Kahala Mall	Pearlridge Center
All retail stores	172.2	423.6	593.3	83.0	174.0
Convenience goods stores	(D)	72.8	266.6	41.4	(D)
Shopping goods stores	37.2	333.8	293.1	40.9	126.8
All other stores	(D)	16.9	33.6	0.7	(D)

D Withheld to avoid disclosing data for individual companies.
Source: U.S. Bureau of the Census, 1982 Census of Retail Trade, Major Retail Centers, Hawaii, RC82-C-12 (October 1984), table 1.

Table 687.-- RETAIL SHOPPING MALL SPACE AND RENTAL RATES, FOR OAHU: 1986

Mall classification	Number of centers	Gross leasable area (1,000 sq. ft.)	Vacant		Rental rates (dollars per sq. ft. per mo.)		Common area maintenance (dollars per sq. ft. per mo.)
			1,000 sq. ft.	Percent	Low	High	
Total	74	9,108	300	3.3	0.75	6.00	...
Neighborhood ..	29	2,269	54	2.4	1.00	2.00	0.24
Strip	22	549	19	3.5	0.75	2.75	0.27
Specialty	11	1,296	91	7.0	2.00	6.00	0.79
Community	8	1,381	50	3.6	1.25	2.00	0.16
Regional	2	913	59	6.5	1.50	4.00	0.39
Super regional	2	2,700	27	1.0	2.00	5.00	0.50

Source: Grubb & Ellis, Honolulu Real Estate 1987, p. 12.

Table 688.-- VIDEOCASSETTE RECORDER SALES: 1978 TO 1986

Year	Total units	Residential use	Commercial use
1978	2,196	2,140	56
1979	3,332	3,124	208
1980	4,892	4,555	337
1981	7,514	6,946	568
1982	15,566	15,178	388
1983	25,360	25,032	328
1984	44,720	44,285	435
1985	63,782	62,548	1,234
1986	52,203	51,795	408

Source: Hawaiian Electric Company, Inc., Market Research, records.

Table 689.-- RETAIL SALES AND HOTEL RECEIPTS OF ESTABLISHMENTS OPERATED FOR MILITARY PERSONNEL: 1958 TO 1986

[In thousands of dollars.]

Year	Retail sales 1/			Hotel receipts 3/
	Total	Commissaries	All other retail sales 2/	
1958	50,027	18,511	31,516	-
1959	59,633	20,170	39,463	-
1960	74,742	21,521	53,221	-
1961	76,890	21,692	55,198	-
1962	84,693	23,928	60,765	-
1963	72,689	22,383	50,306	-
1964-1966	(NA)	(NA)	(NA)	-
1967 4/	109,467	32,210	77,275	-
1968-1971	(NA)	(NA)	(NA)	-
1972	136,088	37,618	98,470	-
1973	144,857	41,017	103,840	-
1974	158,481	45,682	112,799	-
1975 5/	215,947	67,459	148,488	-
1976	229,987	67,183	155,804	6,365
1977	230,601	66,550	164,051	7,356
1978	261,462	77,034	184,429	8,151
1979	266,555	83,595	182,960	8,922
1980	316,985	98,237	218,748	10,114
1981	360,518	107,236	253,281	11,767
1982	405,021	115,314	289,707	13,796
1983	430,354	127,229	303,125	14,288
1984	442,820	129,796	313,023	14,341
1985	438,001	135,014	302,987	14,573
1986	454,093	139,077	315,016	15,839

1/ Calendar year statistics.

2/ Exchanges, eating and drinking places (beginning in 1960), and related facilities. Data are incomplete for food service facilities before 1977 and miscellaneous facilities before 1982.

3/ Room, food, and beverage receipts of Hale Koa Hotel, for years ended September 30. Hale Koa opened in October 1975.

4/ Detail does not add to indicated total, for unknown reason.

5/ Corrected from Data Book 1986, table 664.

Source: Letter from Charles J. Hitch, Assistant Secretary of Defense, October 21, 1963; U.S. Bureau of the Census, Census of Business, 1963, BC63-RA13 (1964), table 8, and Census of Business, 1967, BC67-RA13 (1969), table 7; Hawaii State Department of Planning and Economic Development, Retail Sales and Hotel Receipts of the Armed Forces, 1986 (Statistical Report 198, May 7, 1987), table 2.

Table 690.-- RETAIL SALES AND HOTEL RECEIPTS AT CIVILIAN AND MILITARY ESTABLISHMENTS: 1983 TO 1986

[In millions of dollars]

Year	Retail sales 1/			Hotel receipts 2/		
	Total	Civilian	Military	Total	Civilian	Military
1983	7,868.6	7,438.2	430.4	867.2	852.9	14.3
1984	8,554.7	8,111.9	442.8	987.9	973.6	14.3
1985	8,937.3	8,499.3	438.0	1,113.2	1,098.6	14.6
1986	9,693.5	9,239.4	454.1	1,151.8	1,136.0	15.8

1/ Calendar year statistics.
2/ Years ended September 30.
Source: Hawaii State Department of Planning and Economic Development, Retail Sales and Hotel Receipts of the Armed Forces, 1986 (Statistical Report 198, May 7, 1987).

Table 691.-- CONSUMER CONFIDENCE AND BUYER EXPECTATION INDEXES, FOR OAHU: QUARTERLY, 1983 TO 1987

[1984 annual average = 100]

Index type and year	First quarter	Second quarter	Third quarter	Fourth quarter
Consumer confidence index:				
1983	...	...	...	92.46
1984	97.93	103.25	98.64	100.16
1985	93.97	103.88	104.85	107.72
1986	107.77	108.67	109.90	108.14
1987	111.12	104.88	-	-
Buyer expectations index:				
1983	...	...	...	117.97
1984	105.46	93.81	100.67	99.96
1985	99.63	93.81	106.46	107.25
1986	105.42	104.56	119.19	118.20
1987	112.34	117.05	-	-

Source: SMS Research & Marketing Services, Honolulu.

Table 692.-- CHARACTERISTICS OF WHOLESALE ESTABLISHMENTS, FOR THE STATE, 1977 AND 1982, AND OAHU AND THE NEIGHBOR ISLANDS, 1982

Subject	1977	1982		
		State total	Oahu	Neighbor Islands
Number of establishments	1,569	1,737	1,417	320
Sales ($1,000)	2,571,489	4,084,369	3,392,728	691,641
Annual payroll ($1,000)	177,556	287,626	250,836	36,790
First quarter payroll ($1,000)	43,517	69,858	(NA)	(NA)
Paid employees for pay period including March 12 (number)	14,695	17,210	14,750	2,460
Operating expenses ($1,000)	375,803	620,882	(NA)	(NA)
Inventories ($1,000):				
Beginning of year	(NA)	457,525	(NA)	(NA)
End of year	248,195	440,723	(NA)	(NA)

NA Not available.

Source: U.S. Bureau of the Census, 1977 Census of Wholesale Trade, Hawaii, WC77-A-12 (Revised) (March 1980), table 1; 1982 Census of Wholesale Trade, Hawaii, WC82-A-12 (September 1984), tables 1, 2, 4, and 5.

Table 693.-- WHOLESALE ESTABLISHMENTS, EMPLOYMENT, AND PAYROLL: 1984 AND 1985

Major industry group	Number of establishments		Employees, week including Mar. 12		Annual payroll ($1,000,000)	
	1984	1985	1984	1985	1984	1985
All wholesale trade ...	1,766	1,827	18,002	18,281	346.5	364.8
Durable goods	899	921	8,803	8,938	184.3	197.0
Nondurable goods	844	883	8,743	9,006	149.2	158.5
Administrative and auxiliary	23	23	456	337	13.1	9.3

Source: U.S. Bureau of the Census, County Business Patterns 1985, Hawaii, CBP-85-13 (August 1987), p. 1.

Table 694.-- WHOLESALE TRADE, FOR COUNTIES AND SPECIFIED PLACES: 1982

Geographic area	All wholesalers		Merchant wholesalers	
	Number of establishments	Sales ($1,000)	Number of establishments	Sales ($1,000)
State total	1,737	4,084,369	1,434	2,496,494
Hawaii County	159	285,513	133	152,353
Hilo	107	242,071	90	(D)
Kailua	16	11,835	15	(D)
Honolulu County	1,417	3,392,728	1,169	2,140,295
Aiea	26	64,848	21	58,510
Ewa Beach	12	42,470	10	(D)
Honolulu	1,221	2,950,750	1,016	1,872,910
Kailua	30	25,978	16	5,776
Kaneohe	13	7,460	11	(D)
Pearl City	28	73,908	22	37,300
Waipahu	31	103,617	27	72,012
Kauai County	51	81,030	40	52,557
Lihue	33	55,556	25	40,755
Maui County	110	325,098	92	151,289
Island of Lanai	1	(D)	-	-
Island of Molokai ...	3	(D)	1	(D)
Kahului	54	189,855	43	(D)
Wailuku	35	41,769	32	(D)

(D) Withheld to avoid disclosing data for individual companies.
Source: U.S. Bureau of the Census, 1982 Census of Wholesale Trade, Hawaii, WC82-A-12 (September 1984), table 8.

Table 695.-- WHOLESALE TRADE, BY TYPE OF OPERATION AND KIND OF BUSINESS: 1982

Type of operation and kind of business	Number of establishments	Sales ($1,000)
Wholesale trade	1,737	4,084,369
Type of operation:		
Merchant wholesalers	1,434	2,496,494
Manufacturers' sales branches and offices	160	1,269,797
Agents, brokers, and commission merchants	143	318,078
Kind of business:		
Motor vehicles and automotive parts and supplies	103	293,883
Furniture and home furnishings	59	68,643
Lumber and other construction materials	91	126,739
Sporting, recreational, photo, and hobby goods, toys and supplies	53	83,413
Metals and minerals, except petroleum	12	25,358
Electrical goods	107	244,951
Hardware, and plumbing and heating equipment and supplies	83	98,641
Machinery, equipment, and supplies	268	418,117
Miscellaneous durable goods	123	83,484
Paper and paper products	66	104,774
Drugs, drug proprietaries, and druggists' sundries	42	122,196
Apparel, piece goods, and notions	70	71,081
Groceries and related products	339	1,187,153
Farm-product raw materials	4	4,182
Chemicals and allied products	33	68,316
Petroleum and petroleum products	42	671,552
Beer, wines, and distilled alcoholic beverages	37	175,607
Miscellaneous nondurable goods	205	236,279

Source: U.S. Bureau of the Census, 1982 Census of Wholesale Trade, Hawaii, WC82-A-12 (September 1984), table 2.

Table 696.-- CHARACTERISTICS OF SERVICE ESTABLISHMENTS WITH PAYROLL AND SUBJECT TO FEDERAL INCOME TAX, FOR THE STATE, 1977 AND 1982, AND OAHU AND THE NEIGHBOR ISLANDS, 1982

Subject	1977	1982		
		State total	Oahu	Neighbor islands
Number of establishments	(NA)	6,124	4,864	1,260
Excluding health services 1/ ...	(NA)	4,470	3,535	935
Receipts ($1,000)	(NA)	2,659,651	1,974,216	685,435
Excluding health services 1/ ...	1,269,740	2,239,440	1,642,415	597,025
Annual payroll ($1,000)	(NA)	904,328	688,918	215,410
Excluding health services 1/ ...	409,725	729,107	550,547	178,560
First quarter payroll ($1,000) ...	(NA)	221,453	169,166	52,287
Paid employees for pay period including March 12 (number)	(NA)	71,051	52,849	18,202

NA Not available.

1/ Other than hospitals.

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Hawaii, SC82-A-12 (September 1984), tables 1a, 2a, 4a, and 5a.

Table 697.-- SERVICE ESTABLISHMENTS, EMPLOYMENT, AND PAYROLL, FOR SELECTED INDUSTRY GROUPS: 1984 AND 1985

Major industry group	Number of establishments		Employees, week including March 12		Annual payroll (1,000,000)	
	1984	1985	1984	1985	1984	1985
All services ...	7,869	8,145	106,179	112,582	1,541	1,711
Hotels	241	250	25,698	28,765	329	370
Business services ...	1,063	1,095	15,010	15,746	177	199
Health services	1,852	1,921	21,696	21,361	435	465

Source: U.S. Bureau of the Census, County Business Patterns 1985, Hawaii, CBP-85-13 (August 1987), pp. 1-2.

Table 698.-- SERVICE ESTABLISHMENTS WITH PAYROLL AND SUBJECT TO FEDERAL INCOME TAX, FOR COUNTIES AND SELECTED URBAN PLACES: 1982

Geographic area	Number of establishments		Receipts ($1,000)	
	All services	Hotels 1/	All services	Hotels 1/
State total	6,124	209	2,659,651	973,328
Hawaii County	551	31	258,568	142,430
Hilo	328	11	84,145	11,746
Kailua	91	11	53,919	38,275
Honolulu County	4,864	118	1,974,216	575,692
Aiea	134	2	28,124	(D)
Ewa Beach	12	-	1,796	-
Honolulu	3,958	109	1,762,672	543,972
Kailua	200	1	31,712	(D)
Kaneohe	122	-	22,444	-
Makakilo City	20	-	2,374	-
Mililani Town	16	-	3,504	-
Pearl City	103	-	20,529	-
Wahiawa	85	-	13,646	-
Waianae	24	2	10,889	(D)
Waipahu	76	-	15,329	-
Kauai County	211	22	88,590	43,623
Kapaa	34	5	13,104	8,793
Lihue	103	5	47,610	(D)
Maui County	498	38	338,277	211,583
Island of Lanai ...	5	1	677	(D)
Island of Molokai .	14	2	3,134	(D)
Kahului	145	2	59,277	(D)
Kihei	25	3	7,434	(D)
Lahaina	68	15	98,651	83,472
Wailuku	174	1	40,639	(D)

D Withheld to avoid disclosing data for individual companies.

1/ Including motels and other lodging places (SIC 70), but excluding condominium apartments in transient use.

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Hawaii, SC82-A-12 (September 1984), table 8.

Table 699.-- SERVICE ESTABLISHMENTS WITH PAYROLL AND SUBJECT TO FEDERAL INCOME TAX, BY KIND OF BUSINESS OR OPERATION: 1982 AND 1977

SIC code	Kind of business or operation	Number of establishments, 1982	Receipts 1982 ($1,000)	Receipts 1977 ($1,000)	Receipts Percent change
	Total	6,124	2,659,651	(D)	(D)
70	Hotels, motels, other lodging	209	973,328	548,706	77.4
72	Personal services	663	100,785	70,708	42.5
73	Business services	1,024	313,686	154,427	103.1
75	Automotive repair, services, and garages	567	249,342	157,015	58.8
76	Miscellaneous repair services	241	47,779	32,369	47.6
78, 79	Amusement and recreation services, incl. motion pictures	312	128,452	79,777	61.0
80, ex. 806	Health services, except hospitals	1,654	420,211	(D)	(D)
81	Legal services	636	173,129	65,120	165.9
823, 4, 9	Selected educational services	58	8,032	6,333	26.8
891	Engineering, architectural, surveying serv.	336	158,104	107,129	47.6
893	Accounting, auditing, bookkeeping services	308	75,046	43,444	72.7
83, 892, 9	Social and other services	116	11,757	4,712	149.5

D Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Hawaii, SC82-A-12 (September 1984), tables 1a and 2a.

Table 700.-- HOTELS, MOTELS, AND OTHER LODGING PLACES: 1982

[Includes only establishments with payroll]

Subject	Number of establishments	Receipts ($1,000)	Annual payroll ($1,000)	Paid employees, pay period including March 12
SUBJECT TO FEDERAL INCOME TAX				
Hotels, motels, other lodging .	209	973,328	287,299	26,078
Hotels	178	964,192	284,833	25,718
25 guestrooms or more	158	962,079	284,296	25,644
Less than 25 guestrooms	20	2,113	537	74
Motels, motor hotels, tourist courts	26	8,935	2,421	352
Other lodging places 1/	5	201	45	8
EXEMPT FROM FEDERAL INCOME TAX				
Hotels, camps, membership lodging 2/	8	1,319	473	64

1/ Trailering parks and camps, 1 establishment; rooming, boarding, and membership lodging, 4.

2/ Hotels, 2 establishments; sporting and recreational camps, 3; organization hotels and lodging houses, on membership basis, 3.

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Hawaii, SC82-A-12 (September 1984), pp. 3 and 5.

Table 701.-- HOTEL UNITS AND OCCUPANCY RATES, BY GEOGRAPHIC AREAS: 1966 TO 1987

[Includes condominium units in rental pools for transient occupancy]

Year	Number of hotel units, February 1/			Percent of units occupied, annual average 2/		
	State total	Oahu	Neighbor Islands	State total 3/	Waikiki	Neighbor Islands
1966	14,827	11,083	3,744	(NA)	83.7	67.1
1967	17,217	12,598	4,619	85.5	90.0	72.8
1968	18,657	13,166	5,491	83.7	89.2	75.2
1969	22,801	15,992	6,809	77.8	81.3	69.3
1970	26,923	18,449	8,474	71.2	74.1	64.8
1971	32,289	22,531	9,758	60.4	58.9	63.5
1972	35,797	24,742	11,055	68.9	70.0	66.4
1973	36,608	25,108	11,500	77.7	81.5	70.2
1974	38,675	25,365	13,310	77.5	82.0	69.4
1975	39,632	25,352	14,280	74.1	78.3	68.3
1976	42,648	25,851	16,797	76.9	82.6	68.4
1977	44,986	27,363	17,623	77.4	81.2	71.7
1978	47,070	28,546	18,524	79.5	82.1	75.5
1979	49,832	30,065	19,767	73.8	77.1	70.2
1980	54,246	34,334	19,912	69.3	71.7	64.1
1981	56,769	33,967	22,802	68.2	73.9	59.8
1982	57,968	33,492	24,476	70.4	77.7	60.0
1983	58,765	34,354	24,411	69.7	76.6	60.9
1984	62,448	36,848	25,600	76.0	82.6	69.1
1985	65,919	38,600	27,319	76.1	80.8	69.7
1986	66,308	39,010	27,298	81.7	85.7	75.3
1987	65,318	38,185	27,133	(NA)	(NA)	(NA)

NA Not available.
1/ Except 1966 (January).
2/ Data for 1976 and later years omit several major hotels.
3/ Data include Oahu outside Waikiki, not shown separately.

Source: Hawaii Visitors Bureau, Annual Research Report (annual), Visitor Plant Inventory (periodic), and records.

Table 702.-- VISITOR ACCOMMODATIONS, BY TYPE, 1977 TO 1987, AND BY ISLANDS, 1987

[As of February]

Year and island	Properties			Units		
	Total	Hotels 1/	Condominiums 2/	Total	Hotels 1/	Condominiums 2/
1977	335	(NA)	(NA)	44,986	39,901	5,085
1978	353	(NA)	(NA)	47,070	40,001	7,069
1979	381	(NA)	(NA)	49,832	41,299	8,533
1980	387	(NA)	(NA)	54,246	42,609	11,637
1981	412	214	198	56,769	42,575	14,194
1982	417	208	209	57,968	43,568	14,400
1983	426	218	208	58,765	45,352	13,413
1984	443	209	234	62,448	44,846	17,602
1985	481	207	274	65,919	44,115	21,804
1986	523	201	322	66,308	43,309	22,999
1987	510	196	314	65,318	43,422	21,896
ISLANDS: 1987						
Oahu	203	105	98	38,185	28,949	9,236
Waikiki 3/	173	88	85	34,014	25,722	8,292
Rest of Oahu	30	17	13	4,171	3,227	944
Other islands	307	91	216	27,133	14,473	12,660
Hawaii	81	30	51	7,328	5,226	2,102
Maui	141	29	112	13,264	5,591	7,673
Lanai	1	1	-	10	10	-
Molokai	7	2	5	575	321	254
Kauai	77	29	48	5,956	3,325	2,631

NA Not available.

1/ Hotels, apartment hotels, motels, and cottages. Excludes condominium properties.

2/ Condominium accommodations in rental pools for transient use.

3/ Includes Diamond Head and Kahala but not areas ewa and mauka (west and north) of the Ala Wai Canal. The 88 hotel properties include 61 hotels (with 24,457 units), 26 apartment hotels (with 1,253 units), and 1 cottage facility (with 12 units).

Source: Hawaii Visitors Bureau, Visitor Plant Inventory, 1977 to 1987.

Table 703.-- GENERAL EXCISE TAX BASE FOR RENTALS: 1976 TO 1986

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems]

Year reported 1/	Total	Hotel rentals	All other rentals 2/
1976	1,161,955	433,300	728,655
1977 3/	1,274,918	482,990	791,929
1978 3/	1,392,947	535,874	857,073
1979	1,699,947	672,098	1,027,848
1980	1,820,715	708,620	1,112,095
1981	2,040,505	770,705	1,269,800
1982	2,265,287	844,926	1,420,361
1983	2,470,820	876,227	1,594,593
1984	2,743,855	984,518	1,759,337
1985	3,037,254	1,122,268	1,914,986
1986	3,278,450	1,212,782	2,065,668

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

2/ Includes residential, office, automobile, and equipment rentals, and land leases.

3/ Partly estimated.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 704.-- HOTEL OCCUPANCY AND ROOM RATES, AND FOOD AND BEVERAGE SALES, BY ISLANDS: ANNUAL AVERAGES, 1985 AND 1986

[1985 figures revised from Data Book 1986, table 680]

Subject and year	The State	Oahu	Hawaii	Maui	Kauai
Percentage of occupancy:					
1985	77.55	81.87	58.52	78.18	67.08
1986	81.66	85.35	62.85	81.54	77.62
Average daily room rate (dollars):					
1985	65.66	57.00	65.35	96.75	69.51
1986	73.20	62.13	75.19	113.66	75.37
Average daily guest rate (dollars):					
1985	33.51	29.65	33.04	47.13	33.95
1986	36.80	31.83	38.16	54.36	36.03
Average daily food sales per room (dollars):					
1985	21.10	17.30	32.09	30.09	24.56
1986	22.88	19.26	30.78	31.33	27.37
Average daily beverage sales per room (dollars):					
1985	6.86	5.24	10.70	11.46	7.37
1986	6.83	5.61	9.36	9.79	8.25
Average food sales per cover (dollars):					
1985	10.80	10.21	12.41	11.49	11.16
1986	11.35	10.91	12.13	11.97	11.84

Source: Pannell Kerr Forster, Trends in the Hotel Industry, Hawaii, December 1986.

Table 705.-- PERCENT OF HOTEL UNITS OCCUPIED, BY GEOGRAPHIC AREAS: ANNUAL AVERAGES, 1980 TO 1986

[Includes resort condominium units. Coverage prior to 1986 excluded several major hotel chains]

Geographic area	1980	1981	1982	1983	1984	1985	1986
State total	69.3	68.2	70.4	69.7	76.0	76.1	81.7
Oahu	72.3	74.1	77.8	75.8	81.2	81.5	85.4
Waikiki	71.7	73.9	77.7	76.6	82.6	80.8	85.7
Hawaii	51.0	44.9	44.0	44.7	55.6	57.6	62.9
Hilo	34.4	35.3	37.7	39.2	58.2	57.8	54.6
Kailua-Kona	59.0	49.4	46.9	47.0	54.9	57.5	64.6
Maui	74.2	70.3	73.9	75.2	80.5	78.5	81.5
West Maui	76.1	73.7	78.0	77.8	84.1	82.5	85.8
Other	68.4	58.3	61.4	67.0	70.3	69.6	70.9
Kauai	69.6	62.7	57.5	57.2	63.0	64.8	77.6
South	52.5	46.2	44.2	50.2	63.1	70.1	82.1
East	75.1	68.5	63.4	59.3	63.0	62.6	75.4
Neighbor island average	64.1	59.8	60.0	60.9	69.1	69.7	75.3

Source: Hawaii Visitors Bureau, Annual Research Report for 1980-1986 and records, from surveys by Pannell Kerr Forster for the Hawaii Hotel Association.

Table 706.--AVERAGE DAILY ROOM AND GUEST RATES, BY ISLANDS: 1977 TO 1987

[In dollars. Annual averages, unless otherwise specified]

Type of rate and year	The State	Oahu	Hawaii	Maui	Kauai	Molo-kai 1/
Average daily room rate:						
1977	34.28	31.87	33.08	42.59	38.45	...
1978	38.49	35.95	36.46	47.49	42.20	...
1979	44.41	41.32	41.93	57.10	47.90	...
1980	47.28	42.83	46.40	61.14	54.38	...
1981	49.73	43.05	47.16	73.27	56.06	...
1982	51.78	44.80	47.37	75.02	58.48	...
1983	54.78	46.93	48.84	81.60	59.78	...
1984	59.25	49.45	57.17	88.89	65.05	...
1985	68.84	57.70	64.06	98.51	70.06	...
1986	73.20	62.13	75.19	113.66	75.37	55.96
1987 2/	79.83	68.73	81.74	127.07	81.29	63.94
Average daily guest rate:						
1977	17.42	16.42	16.62	21.22	18.91	...
1978	19.41	18.23	18.41	23.62	20.60	...
1979	22.70	21.10	21.59	29.70	23.75	...
1980	24.40	22.32	24.03	31.52	26.32	...
1981	25.70	22.56	24.41	37.04	27.42	...
1982	26.44	23.39	24.64	35.82	28.84	...
1983	27.71	24.28	22.29	40.53	29.66	...
1984	29.59	24.91	29.00	43.64	31.31	...
1985	34.39	29.24	32.33	47.86	33.95	...
1986	36.80	31.83	38.16	54.36	36.03	25.81
1987 2/	40.13	35.45	41.18	59.88	37.61	28.98

1/ Not available before 1986. Data for 1986 are for first 11 months.

2/ First 11 months.

Source: Pannell Kerr Forster, Trends in the Hotel Industry, Hawaii (monthly).

Table 707.-- HOTEL EMPLOYMENT, PAYROLL, AND RENTAL RATIOS: 1983 TO 1986

[All series in this table exclude condominium units in rental pools for transient occupancy]

Subject	1983	1984	1985	1986
Hotel units, February	45,352	44,846	44,115	43,422
Hotel employment, annual average 1/	26,888	28,262	28,947	29,300
Per hotel unit	0.593	0.630	0.656	0.675
Hotel payrolls, annual 1/ ($1,000)	329,267	369,292	393,701	424,684
Per hotel unit (dollars)	7,260	8,235	8,924	9,780
Per hotel employee (dollars)	12,246	13,067	13,601	14,494
Hotel rentals, annual 2/ ($1,000)	876,227	984,518	1,122,268	1,212,782
Per hotel unit (dollars)	19,321	21,953	25,440	27,930
Per hotel employee (dollars)	32,588	34,835	38,770	41,392

1/ For workers covered by the Hawaii Employment and Security Law.
2/ General excise tax base.
Source: Hawaii Visitors Bureau, Visitor Plant Inventory (February issues); Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual); Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 708.-- TRAVEL AGENCIES, TOUR OPERATORS, AND RELATED SERVICES, BY COUNTIES: 1985

Subject	State total	Honolulu	Hawaii	Kauai and Maui
Establishments with payroll	443	362	28	1/ 53
Employees, week including March 12	4,686	4,078	223	385
Annual payroll ($1,000)	60,758	53,925	2,435	4,398

1/ Kauai County, 12; Maui County, 41.
Source: Data for SIC 4722, passenger transportation arrangement, in U.S. Bureau of the Census, County Business Patterns 1985, Hawaii, CBP-85-13 (August 1987).

Table 709.-- TRAVEL AGENCIES, TOUR OPERATORS, AND RELATED SERVICES: 1982

[Data limited to establishments with payroll. For 1977 data, see Data Book 1984, table 688; for 1972, see Data Book 1977, table 360]

Subject	Total	Travel agencies	Tour operators	Other services
STATE TOTALS				
Number of establishments	403	232	110	61
Receipts ($1,000).................	128,484	39,021	68,506	20,957
Annual payroll ($1,000)	44,268	15,858	21,540	6,870
Paid employees, mid-March	4,125	1,625	1,931	569
OAHU				
Number of establishments	351	196	101	54
Receipts, total ($1,000)	116,923	34,278	64,672	17,973
Commissions 1/	(S)	(S)	3,483	(S)
Tour operations 2/	(S)	(S)	56,682	(S)
All other sources	(S)	(S)	4,507	(S)
Annual payroll ($1,000)	40,277	13.984	20,176	6,117
Paid employees, mid-March	3,685	1,433	1,780	472

S Withheld because estimates did not meet publication standards.

1/ Includes commissions and other receipts from retail sale of passenger transportation and lodging.

2/ Receipts consist of difference between cost of assembling tours and price received, whether sold at wholesale only or both wholesale and retail. For tour operators selling at retail only, difference between selling price and cost is included with "commissions and other receipts."

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Miscellaneous Subjects, SC82-I-5 (December 1985), tables 46 and 47.

Table 710.-- SELECTED SERVICE INDUSTRIES: 1982

[Includes only establishments with payroll]

Kind of business	SIC code	Establishments (number)	Receipts 1/ ($1,000)	Annual payroll ($1,000)	Paid employees, 2/ mid-March
STATE TOTALS					
Architectural services	891	146	55,734	19,682	927
Engineering services	891	166	98,612	42,680	1,910
Surveying services	891	24	3,758	2,144	152
Accounting, auditing, bookkeeping	893	308	75,046	30,775	1,962
OAHU					
Credit reporting, collection agencies	732	26	9,189	(NA)	(NA)
Portrait photography	722	29	4,645	(NA)	(NA)
Computer and data processing services	737	72	45,839	(NA)	(NA)
Legal services	81	532	156,310	(NA)	(NA)

NA Not available.
1/ For receipts by source, see report cited below.
2/ For personnel by occupation, see report cited below.
Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Miscellaneous Subjects, SC82-I-5 (December 1985), tables 7, 8, 10, 30, 35, 37, 38, and 39.

Table 711.-- MOTION PICTURE SERVICES: 1977, 1982, AND 1985

[Data limited to establishments with payroll]

Subject and year	Number of establishments	Receipts ($1,000)	Annual payroll ($1,000)	Paid employees, week inc. Mar. 12
Motion picture production, distribution, and services:				
1977	11	926	174	31
1982	15	4,203	1,147	74
1985	1/ 22	(NA)	1,803	147
Motion picture theaters:				
1977 2/	50	17,444	(D)	(D)
1982	34	21,329	3,195	519
1985	35	(NA)	3,396	478

NA Not available.

D Withheld to avoid disclosing data for individual companies.

1/ Motion picture production and services, 18 establishments; motion picture distribution and services, 4 establishments.

2/ Data include 3 establishments without payroll.

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, Hawaii, SC77-A-12 (December 1979); 1982 Census of Service Industries, Hawaii, SC82-A-12 (September 1984); 1982 Census of Service Industries, Motion Picture Industry, SC82-I-4 (December 1985); and County Business Patterns 1985, Hawaii, CBP-85-13 (August 1987), p. 9.

Table 712.-- MOTION PICTURE AND TELEVISION PRODUCTION: 1976 TO 1986

Subject	1976	1977	1978	1979	1980 1/	1981 2/
Number of features filmed ..	31	63	58	54	58	54
Feature films for theater viewing	3	4	3	6	6	2
Feature films for TV viewing	1	5	5	8	2	1
Television specials and series 3/	27	54	50	40	50	51
Gross budgets (millions of dollars) 4/	26	39	45	78.5	47.5	40
Feature films and television specials and series	20	30	36	63.5	36.5	32
Television commercials and related advertising	6	9	9	15	11	8
Expenditures in Hawaii for feature films and TV specials and series (millions of dollars)	11	16	22	34.75	21.2	17
Tax revenues generated (millions of dollars)	1.01	1.51	2.04	3.14	1.9	1.5
Employment: Total	918	1,265	1,610	2,543	1,551	1,244
Direct	622	856	1,091	1,723	1,051	843
Spending effect on economy (millions of dollars)	29.2	42.4	58.2	91.9	48.2	38.7

Continued on next page.

Table 712.-- MOTION PICTURE AND TELEVISION PRODUCTION: 1976 TO 1986 - Con.

Subject	1982	1983	1984	1985	1986
Number of features filmed ..	66	63	76	66	81
Feature films for theater viewing	1	1	2	1	3
Feature films for TV viewing	3	2	2	4	2
Television specials and series 3/	62	60	72	61	76
Gross budgets (millions of dollars) 4/	50.0	65.5	77.1	80.6	63.6
Feature films and television specials and series	37.6	41.2	53.4	60.5	52.9
Television commercials and related advertising	12.4	24.3	23.7	20.1	10.7
Expenditures in Hawaii for feature films and TV specials and series (millions of dollars)	31.6	35.2	38.2	40.6	35.3
Tax revenues generated (millions of dollars)	2.98	3.32	3.54	3.8	(NA)
Employment: Total	2,625	2,575	2,720	(NA)	(NA)
Direct	1,567	1,745	1,850	(NA)	700
Spending effect on economy (millions of dollars)	71.9	80.1	86.9	90	(NA)

NA Not available.

1/ Activity affected by a prolonged strike of the Screen Actors guild, which affected major productions during much of 1980, and changes in immigration regulation enforcement policies, which brought filming of foreign TV commercials to a virtual halt.

2/ Activity affected by a writers' strike, directors' strike, and continuation of the strict enforcement of immigration regulations initiated in 1980.

3/ Each program in a series counted separately.

4/ Includes post-production costs out of the State.

Source: Hawaii State Department of Business and Economic Development, Film Industry Branch, records.

Section 24

FOREIGN AND INTERSTATE COMMERCE

This section includes data on the flow of goods, services, and capital between Hawaii and the rest of the world, with particular emphasis on trade and investment involving foreign countries.

Imports to Hawaii from foreign nations rose from $915 million in 1976 to $1.6 billion in 1986. Exports to foreign countries amounted to only $66 million in 1976, but by 1986 reached $231 million. These figures, it should be noted, refer to merchandise imports and exports through the Honolulu Customs District. They do not necessarily represent exports of commodities originating in Hawaii, nor imports for direct consumption within the State.

Trade with the Mainland United States has similarly risen in the past decade. Merchandise received from the Mainland increased from $2.0 billion in 1975 to $5.6 billion in 1985. Estimates of the value of merchandise shipped to the Mainland are no longer available.

Among the foreign nations, Hawaii's leading trading partner in 1985 was Japan for both imports and exports. Imports for consumption from Japan amounted to $466 million, or 27 percent of the total, while exports to Japan reached $84 million or 22 percent of all foreign exports. About 51 percent of all imports for consumption were petroleum and natural gas products and monolithic integrated circuits.

Honolulu Foreign Trade Zone No. 9 handled merchandise valued at $54 million in fiscal 1986. Merchandise handled by Subzone No. 9A, the PRI refinery, was valued at $922 million, almost all of it in petroleum and petroleum products.

Foreign-owned businesses in Hawaii had a gross book value of $1.8 billion in 1985, owned 50,000 acres, and employed 18,500 persons. Foreign investments in Hawaii between 1959 and 1987 exceeded $4.2 billion, three-fourths of it Japanese.

Sources for statistics on interstate and foreign commerce include the U.S. Bureau of the Census and Bureau of Economic Analysis, Foreign Trade Zone No. 9 and Subzone No. 9A, and the International Services Branch of the Hawaii State Department of Business and Economic Development. Further information is found in waterborne cargo data by origin and destination, compiled by the Army Corps of Engineers and cited in Section 18.

Comparable data for the nation as a whole appear in Section 30 of Statistical Abstract of the United States: 1987. Long-term Island trends are summarized in Historical Statistics of Hawaii, Section 21.

Table 713.-- INTERSTATE AND FOREIGN TRADE: 1958 TO 1985

[Merchandise imports and exports, foreign and domestic, in millions of current dollars]

Year	Merchandise imports					Merchandise exports, total 1/
	Total	Domestic			Foreign	
		Total	Waterborne	Air		
1958	459.2	425.8	340.0	85.8	33.4	253.2
1959	499.4	465.2	379.3	85.9	34.2	276.1
1960	587.2	540.3	452.7	87.6	46.9	263.8
1961	571.8	512.4	425.3	87.1	59.3	281.5
1962	568.4	499.7	413.7	86.0	68.7	293.7
1963	644.2	569.6	482.8	86.9	74.6	334.4
1964	676.4	590.3	502.6	87.6	86.1	321.5
1965	785.7	689.0	600.4	88.6	96.8	331.6
1966	962.6	857.5	767.7	89.8	105.1	351.2
1967	848.5	723.4	631.3	92.0	125.1	372.7
1968	996.0	853.4	759.0	94.4	142.6	377.7
1969	1,045.3	874.3	775.8	98.5	171.0	338.2
1970	1,431.5	1,256.8	1,172.5	84.3	174.7	349.4
1971	1,258.1	1,034.6	888.7	145.9	223.6	380.8
1972	1,462.5	1,218.8	1,082.2	136.6	243.7	365.0
1973	1,892.9	1,578.0	1,460.1	117.9	314.9	493.9
1974	2,510.0	1,962.9	1,825.0	137.8	547.2	1,017.9
1975	2,843.0	2,044.8	1,872.8	172.0	798.2	844.7
1976	3,310.8	2,488.8	2,269.2	219.5	822.0	903.6
1977	3,792.1	2,885.1	2,648.3	236.8	907.1	938.4
1978	4,146.1	3,140.9	2,890.0	251.0	1,005.2	1,044.7
1979	5,001.2	3,897.0	3,636.9	260.1	1,104.3	1,182.3
1980	6,239.4	4,779.7	4,577.9	201.9	1,459.7	1,569.2
1981	6,241.3	4,716.1	4,500.2	215.9	1,525.2	1,289.2
1982	5,933.8	4,700.3	4,478.8	221.5p	1,233.5	1,333.4
1983	6,461.8	5,096.3	4,856.6	239.7p	1,365.5	1,440.7
1984	6,568.0	5,309.4	5,047.9	261.5p	1,258.6	1,419.8
1985	6,981.2	5,564.2	5,290.2	274.0p	1,417.0	1,336.3

p Preliminary
1/ Not available separately for foreign and domestic exports.
Source: Hawaii State Department of Business and Economic Development, Hawaii's Income and Product Accounts: 1958 to 1985 (forthcoming).

Table 714.-- FOREIGN TRADE THROUGH THE HONOLULU CUSTOMS DISTRICT: 1967 TO 1986

[Value, in millions of dollars, of U.S. imports and exports entered or exported through the Honolulu Customs District. The data may include imports intended for consumption on the Mainland and exports originated on the Mainland]

Year	General imports 1/	Imports for consumption 1/	Exports of foreign and domestic merchandise 2/
1967	125.1	120.1	47.4
1968	142.5	138.7	49.0
1969	171.0	167.3	46.4
1970	174.7	167.4	51.2
1971	223.6	215.5	46.3
1972	244.3	227.5	60.4
1973	340.1	304.9	72.8
1974	645.3	605.5	115.2
1975	784.4	757.6	95.7
1976	915.1	876.5	66.2
1977	1,038.2	988.1	98.3
1978	1,184.5	1,126.4	137.8
1979	1,334.6	1,238.5	176.1
1980	1,842.0	1,721.4	174.3
1981	1,982.2	1,525.4	237.7
1982	1,732.7	1,509.4	219.0
1983	1,828.0	1,433.5	203.3
1984	1,614.2	1,397.9	316.9
1985	1,756.3	1,553.1	388.8
1986	1,556.9	1,425.4	231.1

1/ Customs value basis. Excludes vessels under their own power or afloat and shipments valued under $251.

2/ Totals are on f.a.s. (free alongside ship) basis.

Source: U.S. Bureau of the Census, U.S. Foreign Trade: Highlights of Exports and Imports, FT990 (through 1973) and Highlights of U.S. Export and Import Trade, FT990 (1974 and later), cumulative totals in December issues.

Table 715.-- IMPORTS AND EXPORTS, BY CUSTOMS DISTRICT AND STATE OF ORIGIN AND DESTINATION: JANUARY-MAY, 1987

[In millions of dollars]

Subject	Value
General imports (c.i.f. value basis):	
Entered through Honolulu Customs District	679.2
Destined for Hawaii 1/	299.9
Exports (f.a.s. value basis):	
Cleared through Honolulu Customs District	126.4
Originated in Hawaii 1/	50.0

1/ Includes commodities through customs districts other than Honolulu.

Source: U.S. Bureau of the Census, Highlights of U.S. Export and Import Trade, May 1987, FT 990 (August 1987), tables A-11, B-6, and C-10.

Table 716.-- U.S. AIRBORNE EXPORTS AND GENERAL IMPORTS: 1986

Continent	Exports (f.a.s. value basis)		General imports (customs value basis)	
	Shipping weight (1,000 lb.)	Value ($1,000)	Shipping weight (1,000 lb.)	Value ($1,000)
Total	19,082	84,129	26,618	645,457
North America	4,598	14,869	3,289	8,840
South America	3	80	15	258
Europe	162	1,277	1,278	71,637
Asia	13,107	40,319	17,125	519,393
Australia and Oceania ...	1,212	27,572	4,888	45,021
Africa	1	13	22	309

Source: U.S. Bureau of the Census, U.S. Airborne Exports and General Imports, Annual 1986, FT986-86-13 (June 1987).

Table 717.-- FOREIGN TRADE THROUGH THE HONOLULU CUSTOMS DISTRICT, BY METHOD OF TRANSPORTATION: 1986

[See headnote to preceding table]

Category and method of transportation	Value 1/ (million dollars)	Shipping weight (million pounds)
General imports, all methods 2/	1,556.9	(NA)
Vessel	933.5	7,356.9
Air	645.5	26.6
Imports for consumption, all methods 3/	1,425.4	(NA)
Exports, all methods 2/	231.1	(NA)
Vessel	81.7	966.0
Air	84.1	19.1

NA Not available.

1/ Customs value basis for imports; f.a.s. (free alongside ship) value basis for exports. See source for definitions.

2/ Includes categories not tabulated by method of transportation, not shown separately.

3/ Not available by method of transportation.

Source: U.S. Bureau of the Census, Highlights of U.S. Export and Import Trade, FT 990, December 1986, tables B-6, C-10, and C-11.

Table 718.-- FIREWORKS IMPORTED INTO THE HONOLULU CUSTOMS DISTRICT: 1984 TO 1986

Year	Pounds	Value (dollars)
1984	458,197	728,892
1985	578,692	855,620
1986	875,397	1,160,627

Source: U.S. Bureau of the Census, Foreign Trade Statistics, IA 253 (annual tabulations, 1985) and IA 245-X (1984 and 1986).

Table 719.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT, BY REGION OF ORIGIN OR DESTINATION: 1985 AND 1986

[In dollars. Includes all foreign trade through the Honolulu Customs District, and thus may include imports intended for consumption in other States or exports originated in other States. Excludes imports intended for consumption in Hawaii but entering through other customs districts, and exports originated in Hawaii but shipped through other customs districts]

Region	Imports for consumption		Exports of domestic merchandise	
	1985	1986	1985	1986
All regions	1,756,256,046	1,425,448,868	388,837,228	231,101,886
Africa	754,108	375,080	152,422	301,707
Asia	1,301,666,271	1,168,353,226	290,236,990	130,866,667
Australia and Oceania ...	276,700,872	169,165,412	62,477,479	75,424,684
Europe	124,849,603	58,231,214	21,270,646	7,482,684
Latin America 1/	26,173,151	5,366,518	7,732,909	624,613
North America 2/	26,112,041	23,957,418	6,966,782	16,401,531

1/ Includes Central and South America, Bermuda, and the Caribbean.
2/ Excluding Latin America.
Source: Hawaii State Department of Business and Economic Development, International Services Branch, *Hawaii's Foreign Trade, A Statistical Digest* (annual). Compiled from U.S. Bureau of the Census tapes.

Table 720.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT, TOTAL AND BY LEADING COUNTRIES OF ORIGIN OR DESTINATION: 1986

[See headnote to preceding table]

Country	Total	Imports for consumption	Exports of domestic merchandise
All countries	1,656,550,754	1,425,448,868	231,101,886
Japan	546,913,880	447,061,420	99,852,460
Indonesia	217,303,525	216,892,998	410,527
Australia	191,397,459	143,156,924	48,240,535
Singapore	183,673,996	181,222,504	2,451,492
Taiwan	138,643,617	130,726,870	7,916,747
Philippines	72,794,408	68,003,170	4,791,238
Korea, Republic of	43,586,675	36,841,163	6,745,512
Canada	40,358,949	23,957,418	16,401,531
Hong Kong	37,288,730	33,097,722	4,191,008
New Zealand	32,275,532	23,948,972	8,326,560
Malaysia	27,661,589	25,845,555	1,816,034
China, People's Republic of .	16,561,203	16,280,175	281,028
Trust Territory of the Pacific Islands 1/	14,726,267	188,274	14,537,993
United Kingdom	12,667,642	10,630,092	2,037,550
Italy	9,101,890	8,799,003	302,887
Germany, Federal Republic of	8,995,123	8,881,283	113,840
France	8,585,450	8,344,083	241,367
Netherlands	7,762,244	3,066,614	4,695,630
Thailand	6,109,516	5,795,225	314,291
Denmark	6,029,864	6,029,864	-
Greece	3,493,441	3,484,338	9,103
India	2,954,368	2,863,720	90,648
Other Pacific Islands 2/	2,317,983	710,093	1,607,890
Sweden	2,312,780	2,312,780	-
Venezuela	2,061,113	1,897,146	163,967

1/ Caroline, Mariana, and Marshall Islands.

2/ Nauru, Fiji, and Tonga.

Source: Hawaii State Department of Business and Economic Development, International Services Branch, Hawaii's Foreign Trade 1986, A Statistical Digest, International Business Series No. 51 (January 1988), pp. 2-4. Compiled from U.S. Bureau of the Census tapes.

Table 721.-- IMPORTS AND EXPORTS OF PETROLEUM, NATURAL GAS, AND PRODUCTS THEREOF THROUGH THE HONOLULU CUSTOMS DISTRICT, FOR LEADING COUNTRIES OF ORIGIN OR DESTINATION: 1986

[See headnote to table 719]

Country	Dollars
IMPORTS	
All countries	317,125,823
Indonesia	214,855,298
Australia	49,552,255
Malaysia	23,555,363
Singapore	11,785,216
China, People's Republic	7,593,617
EXPORTS	
All countries	29,170,881
Australia	15,959,486
Japan	7,679,689
Taiwan (Republic of China)	5,501,728
Trust Territories	29,978

Source: Hawaii State Department of Business and Economic Development, International Services Branch, Hawaii's Foreign Trade 1986, A Statistical Digest (International Business Series No. 51, January 1988), pp. 19 and 42, and records.

Table 722.-- IMPORTS OF MONOLITHIC INTEGRATED CIRCUITS THROUGH THE HONOLULU CUSTOMS DISTRICT, BY COUNTRY OF ORIGIN: 1986

[See headnote to table 719]

Country	Dollars
All countries	282,922,795
Singapore	154,291,200
Taiwan (Republic of China)	63,879,060
Philippines	55,022,069
Japan	8,971,698
Malaysia	405,534

Source: Hawaii State Department of Business and Economic Development, International Services Branch, Hawaii's Foreign Trade 1986, A Statistical Digest (International Business Series No. 51, January 1988), p. 38, and records.

Table 723.-- EXPORTS OF AIRCRAFT AND SPACECRAFT, FOR LEADING COUNTRIES OF DESTINATION: 1986

[See headnote to table 719]

Country	Dollars
All countries	71,716,285
Japan	46,103,544
Australia	15,146,093
New Zealand	4,236,241
Papua New Guinea	1,817,511
Malaysia	1,650,911

Source: Hawaii State Department of Business and Economic Development, International Services Branch, Hawaii's Foreign Trade 1986, A Statistical Digest (International Business Series No. 51, January 1988), p. 21, and records.

Table 724.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT, BY COMMODITY CLASSIFICATION: 1986

[See headnote to table 719]

Commodity	Imports for consumption	Exports of domestic mdse.
All commodities	1,425,448,868	231,101,886
Animal and vegetable products	88,804,402	39,673,437
Wood and paper; printed matter	24,270,792	5,972,206
Textile fibers and products	45,277,735	1,423,492
Chemicals and related products	331,146,067	34,688,827
Petroleum, natural gas, and products derived therefrom	317,125,823	29,170,881
Other chemicals and related products	14,020,244	5,517,946
Nonmetallic minerals and products	15,444,606	1,491,287
Metals and metal products	687,768,739	119,890,685
Integrated circuits	282,922,795	230,041
Motor vehicles	289,287,110	3,351,891
Aircraft and spacecraft	1,006,186	71,716,285
Other metals and metal products	114,552,648	44,592,468
Specified miscellaneous products	149,144,795	24,583,109
Special classification provisions	83,591,732	3,378,843

Source: Hawaii State Department of Business and Economic Development, International Services Branch, Hawaii's Foreign Trade 1986, A Statistical Digest (International Business Series No. 51, January 1988), pp. 17-22 and 35-40.

Table 725.-- FOREIGN-TRADE ZONE NO. 9 OPERATIONS: 1968 TO 1987

[Years ended June 30 through 1976 and September 30 thereafter. Foreign-Trade Zone No. 9 began operation June 15, 1966]

Fiscal years	Firms using zone	User employment at zone 1/	Value of merchandise ($1,000)		Revenue (dollars)	Expenditures (dollars)
			In/out	Exports		
1968 ..	82	42	6,279	498	88,060	122,718
1969 ..	94	56	10,078	1,187	120,990	122,628
1970 ..	124	65	11,682	1,850	160,438	156,424
1971 ..	138	57	17,363	3,147	206,159	193,450
1972 ..	132	58	20,648	2,894	289,301	229,379
1973 ..	140	83	23,442	2,775	267,393	260,251
1974 ..	139	113	25,394	6,140	355,737	325,633
1975 ..	148	131	29,828	6,317	463,008	415,371
1976 ..	179	139	24,396	4,576	481,172	429,496
1977 ..	205	145	25,702	3,956	700,470	606,720
1978 ..	191	193	29,095	4,395	835,004	574,044
1979 ..	204	221	34,928	4,450	545,380	568,607
1980 ..	211	263	37,118	6,396	638,961	615,361
1981 ..	186	274	46,188	12,093	750,676	714,750
1982 ..	178	263	52,483	11,957	744,741	780,932
1983 ..	190	203	48,312	11,839	965,590	1,032,675
1984 ..	198	224	46,312	10,596	1,107,107	996,236
1985 ..	229	218	39,376	6,196	1,122,722	1,058,802
1986 ..	302	200	53,890	6,416	1,282,855	1,101,505
1987 ..	400	299	72,951	10,070	1,220,265	1,052,055

1/ For firms occupying facilities on a continuing basis only.

Source: Hawaii State Department of Business and Economic Development, Foreign-Trade Zone No. 9, annual reports and records.

Table 726.-- FOREIGN-TRADE SUBZONE OPERATIONS: 1972 TO 1987

[Years ended June 30 through 1976 and September 30 thereafter. Foreign-Trade Subzone No. 9-A began operation April 7, 1972; 9-B, Jan. 30, 1986; 9-C, Aug. 1, 1985; 9-D, April 30, 1986]

Subzone and fiscal year	User employment at subzone 1/	Merchandise, in/out		Exports	
		Quantity (1,000 short tons)	Value ($1,000)	Quantity (1,000 short tons)	Value ($1,000)
NO. 9-A					
1972 ..	45	453.0	9,300	41.1	1,106
1973 ..	73	3,250.0	76,760	1,178.1	33,614
1974 ..	95	3,046.8	156,454	564.0	52,436
1975 ..	(NA)	3,794.6	340,996	707.1	72,003
1976 ..	159	5,755.7	534,023	815.2	80,719
1977 ..	156	6,349.6	608,815	893.2	83,134
1978 ..	139	6,837.5	705,711	1,178.5	117,247
1979 ..	149	6,507.8	862,559	1,070.1	149,646
1980 ..	161	6,408.9	1,471,841	1,184.5	295,528
1981 ..	182	6,188.2	1,728,457	1,396.3	406,084
1982 ..	203	6,781.3	1,758,180	1,952.9	531,437
1983 ..	203	6,944.5	1,491,063	2,047.6	461,298
1984 ..	205	7,405.6	1,348,745	1,995.5	363,698
1985 ..	212	7,680.5	1,450,466	2,075.3	402,568
1986 ..	210	7,717.5	922,289	1,560.0	198,368
1987 ..	213	8,107.9	860,963	1,825.0	196,172
NO. 9-B					
1986 ..	6	(NA)	448	(NA)	220
1987 ..	7	(NA)	1,556	(NA)	778
NO. 9-C					
1986 ..	2,400	(NA)	300,844	(NA)	16,205
1987 ..	2,000	(NA)	267,336	(NA)	15,999
NO. 9-D					
1986 ..	1,000	(NA)	23,646	(NA)	124
1987 ..	1,250	(NA)	73,988	(NA)	1,756

NA Not available.

1/ For firms occupying facilities on a continuing basis only.

Source: Hawaii State Department of Business and Economic Development, Foreign-Trade Zone No. 9, annual reports and records.

Table 727.-- FOREIGN DIRECT INVESTMENT IN HAWAII: 1981 TO 1985

[Data for Hawaii nonbank affiliates of U.S. business enterprises owned 10 percent or more, directly or indirectly, by a foreign person]

Subject	1981	1982	1983	1984	1985
Gross book value of property, plant, and equipment of affiliates (million dollars)	(D)	(D)	1,599	1,691	1,771
Employment, by country of ultimate beneficial owner	16,996	16,370	16,251	16,548	18,511
Canada	676	599	576	515	535
European countries	1,555	2,154	1,724	2,232	2,120
Japan	9,097	9,339	9,695	9,820	11,450
Latin America	1,124	(D)	736	807	820
Other countries	4,544	4,278	3,520	3,174	3,586
Land owned (1,000 acres)	111	112	102	51	50

D Withheld to avoid disclosure of data for individual companies.
NA Not available.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, "U.S. Affiliates of Foreign Companies: Operations in 1982," Survey of Current Business, December 1984, pp. 26-40; "U.S. Affiliates of Foreign Companies: Operations in 1983," Survey of Current Business, November 1985, pp. 36-50; "U.S. Affiliates of Foreign Companies: Operations in 1984," Survey of Current Business, October 1986, pp. 31-45; and "U.S. Affiliates of Foreign Companies: Operations in 1985," Survey of Current Business, May 1987, pp. 36-51.

Table 728.-- EMPLOYMENT AND SHIPMENTS RELATED TO MANUFACTURED EXPORTS: 1983 AND 1984

Subject	1983	1984
Employment related to manufactured exports	4,700	5,400
Percent of civilian employment	1.0	1.2
Manufacturing industries	900	700
Direct export related	500	300
Supporting exports	400	400
Nonmanufacturing industries	3,800	4,700
Trade	3,000	4,000
Other	800	700
Value of export related manufacturers' shipments 1/	310.2	414.1
Percent of total manufacturers' shipments	9.1	12.1
Direct exports 1/	192.3	304.2
Supporting exports 1/	117.9	109.9

1/ Million dollars.

Source: U.S. Bureau of the Census, 1984 Annual Survey of Manufactures, Origin of Exports of Manufactured Products, M84(AS)-5 (August 1987), tables 2 and 3.

Table 729.-- CHARACTERISTICS OF ESTABLISHMENTS OF FOREIGN-OWNED U.S. FIRMS IN HAWAII: 1981 AND 1982

[This survey was discontinued after 1982]

Year	Firms	Establishments	Employment	Payroll, annual ($1,000)
1981	97	276	12,495	175,501
1982	100	276	14,036	198,470

Source: U.S. Bureau of the Census, Selected Characteristics of Foreign-Owned U.S. Firms: 1981, Series FOF, No. 5 (March 1983) and Selected Characteristics of Foreign-Owned U.S. Firms: 1982, Series FOF, No. 6 (April 1984).

Table 730.-- AGRICULTURAL LANDHOLDINGS OF FOREIGN OWNERS: DECEMBER 31, 1986

Subject	Amount
Parcels owned by foreigners	46
Individuals	14
Organizations	32
Acres owned by foreigners	52,372
Percent of all privately owned agricultural land 1/	2.6
Individuals	543
Organizations	51,829
Value of foreign-owned agricultural land ($1,000):	
At time of acquisition	45,812
Adjusted current value	35,526

1/ The percent for Hawaii ranked third among the 50 States, exceeded only by Maine (10.0 percent) and Oregon (3.4), and well above the national percentage (1.0).

Source: U.S. Department of Agriculture, Economic Research Service, Foreign Ownership of U.S. Agricultural Land Through December 31, 1986 (Staff Report No. AGES 870319, April 1987), pp. 5, 8, and 11.

Table 731.-- FOREIGN INVESTMENTS IN HAWAII, TOTAL AND JAPANESE: ANNUALLY, 1959 TO 1987

[In thousands of dollars. Data are estimates based on incomplete reporting]

Year	Total foreign investments	Investments by Japanese
Total completed	4,165,483	3,225,457
1970 and earlier years	48,770	44,970
1971-1975	452,069	327,869
1976	120,740	55,940
1977	32,200	17,800
1978	44,500	13,500
1979	297,470	165,250
1980	124,485	80,100
1981	108,775	70,800
1982	629,880	489,880
1983	141,176	134,900
1984	202,600	112,000
1985	139,724	120,654
1986	1,098,309	1,063,309
1987, to June 30	724,785	528,485
Future completions	198,000	198,000

Source follows next table.

Table 732.-- FOREIGN INVESTMENTS IN HAWAII, BY COUNTRY OF INVESTOR AND TYPE OF INVESTMENT: CUMULATIVE, 1959 TO 1987

[In thousands of dollars. Data are estimates based on incomplete reporting]

Country of investor and type of investment	Amount
Cumulative total 1/	4,165,483
Country of investor:	
Australia	167,800
Bermuda	500
British West Indies	575
Canada	154,670
France	15,900
Hong Kong	231,895
Indonesia	82,000
Japan	3,225,457
Korea	11,550
Netherlands	19,600
Netherlands Antilles	17,735
New Zealand	28,000
Taiwan	13,500
United Kingdom	193,801
Vanuatu	2,500
Type of investment:	
Agriculture	31,100
Banks	25,519
Condominiums	543,450
Golf courses	85,300
Hotels	1,966,300
Manufacturing	44,205
Other real estate	1,137,160
Restaurants	40,275
Retailing and wholesaling	67,079
Science and education	84,401
Miscellaneous	140,694

1/ Excludes $198 million in projects to be completed after June 30, 1987.

Source: Hawaii State Department of Business and Economic Development, International Services Branch, A Listing of Foreign Investments in Hawaii (International Business Series No. 49, June 30, 1987), pp. 56-58, as revised.

Section 25

COMPARATIVE NATIONAL STATISTICS

This section presents statistics for the United States as a whole, the corresponding figures for Hawaii, and the rank of Hawaii among the 50 states and District of Columbia. The 12 tables in this section contain 394 series, thought to include the most significant or frequently requested types of data for which national comparisons are available. Virtually all of the major subject-matter areas covered in the first 24 sections of the Data Book are represented. The comparisons include totals, averages, medians, percentages, and rates.

Ranked against other jurisdictions, Hawaii was highest in 23 comparisons, second highest in 14, lowest in 6, and second lowest in 15. Hawaii ranked 39th in population, first in life expectancy, 11th in public school pupil-teacher ratio, 18th in crime rate, 47th in land area, 14th in percent of land owned by the Federal government, 27th in visitor expenditures, 47th in votes cast as a percent of voting-age population, 10th in State and local government expenditures per capita, 7th in armed forces, 23rd in public aid recipients relative to population, 9th in female labor force participation rate, 23rd in per capita personal income, 6th in family living costs (based on data for 100 metropolitan areas), 41st in bank deposits, 47th in commercial radio stations, first in fuel and electricity prices per Btu, 50th in highway mileage, first in volume of crop marketings for pineapple, macadamia nuts, and bananas, 17th in value of fish catch, 49th in percent of housing units owner occupied, 46th in value added by manufacture, 15th in retail sales per capita, 9th in hotel receipts, and 8th in percent of business establishments foreign owned.

High ranks do not necessarily mean favorable scores, nor low ranks unfavorable scores. Hawaii was first (highest) in expectation of life at birth and 50th (second lowest) in crude death rate, for example, but both were highly desirable positions.

When Hawaii shared the same rank with other jurisdictions, the next lower rank (or ranks) was omitted. Although most comparisons were for 51 areas (50 states and the District of Columbia), some ranked Honolulu against other large metropolitan areas, and a few were based on other groupings. Variations in the comparison groups are noted in the stubs.

Some of the values shown for Hawaii in this section differ from the corresponding figures given elsewhere in the Data Book, because of differences in sources or subsequent revisions in data.

This section was taken entirely from DBED Statistical Report 206, "Hawaii's Ranking, 1987," which contains source citations for all series. Persons interested in data and ranks for other states should consult the Statistical Abstract of the United States: 1987, pp. xvii-xxvi, and State and Metropolitan Area Data Book, 1986, table 1. Historical data on state rankings are not readily available for most series.

Table 733.-- POPULATION, VITAL STATISTICS, AND HEALTH

Subject	United States	Hawaii	
		Number	Rank
Resident population, 1986 (1,000)	241,077	1,062	39
Percent change in resident population, 1980-1986	6.4	10.1	12
Resident population per square mile, 1985	67	164	14
Net migration, 1980-1985 (1,000)	3,530	19	20
Net migration, percent of 1980 population	1.6	2.0	16
Males per 100 females, 1986	94.9	104.2	3
Resident population, by selected age groups, 1985:			
Under 5 years old, percent of population	7.5	8.4	12
5 to 17 years old, percent of population	18.7	18.4	32
25-44 years old, percent of population	31.5	33.1	11
65 years old and over, percent of population	12.1	9.7	46
Median age of population, 1986 (years)	31.7	30.9	39
Resident population, by selected races, 1980:			
White, percent of population	83.1	33.0	50
Black, percent of population	11.7	1.8	38
Asian and Pacific Islander, percent of population	4.5	64.9	1
Pct. married of persons 15 years old and over, 1980:			
Male	60.1	55.2	50
Female	54.8	56.8	22
Households, 1986 (1,000)	88,797	336	43
Persons per household, 1986	2.65	3.04	2
One-person households, percent of all households, 1980	22.7	17.1	51
Births per 1,000 population, 1986	15.8	17.4	10
Deaths per 1,000 population, 1985	8.5	5.8	50
Legal abortions, 1982 (1,000)	1,573.9	9.1	33
Infant mortality per 1,000 births, 1984	10.8	9.9	36
Deaths per 100,000 population, by cause, 1983:			
Diseases of the heart	329.2	172.7	50
Cancer	189.3	127.2	47
Cerebrovascular diseases	66.5	42.1	46
Accidents and adverse effects	39.5	30.5	48
Average life expectancy, 1979-1981 (years)	73.88	77.02	1
Marriages, 1984 (1,000)	2,487.0	14.9	38
Divorces, 1984 (1,000)	1,155.0	4.8	41
Per capita personal health care expend., 1982 (dollars)	1,220	1,228	17
Health insurance coverage, percent of civilian labor force, 50 States, 1983	(NA)	62.43	12
Average daily hospital room charge, January 1986 (dol.)	225	253	8
Average daily room cost to hospital, 1984 (dollars)	411	383	24
Physicians per 100,000 population, 1983	196	209	10
Dentists per 100,000 population, 1984	57	65	12
Registered nurses per 100,000 population, 1983	600	587	27

NA Not available.

Table 734.-- EDUCATION, LAW ENFORCEMENT, COURTS, AND PRISONS

Subject	United States	Hawaii	
		Number	Rank
Elementary and secondary schools:			
Public, 1983-1984	84,179	231	49
Private, 1980-1981	20,764	114	34
Elementary and secondary school enrollment (1,000):			
Public, Fall 1984	39,305	164	40
Private, 1980-1981	4,962	37	31
Elementary and secondary school teachers (1,000):			
Public, 1985-1986	2,178	8.4	43
Private, 1980-1981	277.4	2.1	31
Public school enrollment, percent of persons 5-17 years old, Fall 1984	87.6	83.3	45
Percent change in public school enrollment, 1975-1984	-12.7	-8.4	22
Pupil-teacher ratio in public schools, 1983-1984	18.45	20.06	11
Public school expenditures, 1985-1986 (mil. dol.)	147,789	612	42
Average per student in daily attendance (dollars)	3,723	3,766	18
Average per capita (dollars)	619	581	28
Scholastic Aptitude Test scores, 50 States, 1985-1986:			
Verbal	431	403	47
Math	475	477	33
Percent high school graduates of persons 25 years and older, 1980	66.5	73.8	9
Public high school graduates, 1986 (1,000)	2,402.0	9.7	43
Average annual public teacher's salary, 1986 (dollars)	25,313	25,845	18
Higher education enrollment, Fall 1984 (1,000)	12,242	50	42
Net migration of new college students, Fall 1984	91,339	182	37
Students attending college within State, percent of total students, Fall 1984	84	80	34
Percent college graduates of persons 25 years and older, 1980	16.3	20.3	5
Degrees conferred, 1983-1984:			
Bachelor's	974,309	3,370	46
Master's	284,263	1,008	41
Doctorate	33,209	101	40
Average monthly earnings of full-time instructional personnel of public institutions of higher education, October 1985 (dollars)	2,990	2,777	30
Crime rates per 100,000 population, 1985	5,207	5,201	19
Property crimes	4,650	4,981	15
Violent crime rates	556.5	219.4	42
Marijuana harvest, 1984 (billion dollars)	16.6	1.0	2
Eradicated marijuana plants, 1983 (1,000)	3,794	579	2
Federal and State prisoners, 1985	503,601	2,111	38
Prisoners per 100,000 population	210.9	200.3	17
Prisoners as percent of capacity	113.9	184.6	2
Population per attorney, 1980	418	507	21

Table 735.-- GEOGRAPHY, ENVIRONMENT, LAND USE, AND LAND OWNERSHIP

Subject	United States	Hawaii	
		Number	Rank
Year admitted to statehood, 50 States	(X)	1959	50
General coastline (statute miles)	12,383	750	4
Land area, 1980 (1,000 square miles)	3,539.3	6.4	47
Highest point (feet) (U.S.: McKinley; HI: Mauna Kea)	20,320	13,796	6
Approximate mean elevation (feet)	2,500	3,030	10
Water withdrawal per capita, 1980 (gallons per day)	1,976	2,591	17
Ground water withdrawal, percent of daily total, 1980	19.9	32.0	11
Air pollutant emissions, 1982 (1,000 tons):			
Carbon monoxide	88,440	342	43
Nitrogen oxides	22,929	63	47
Particulates	40,661	55	48
Normal daily mean temperature, 69 cities including Honolulu, 1951-1980 (degrees Fahrenheit):			
January	32.5	72.6	1
July	75.2	80.1	15
Annual average	54.5	77.0	1
Temperature of record, 69 cities including Honolulu, 1951-1985 (degrees Fahrenheit):			
Highest temperature	105	94	68
Lowest temperature	-13	53	69
Normal annual precipitation, 69 cities including Honolulu, 1951-1980 (inches)	34.72	23.47	55
Average number of days with precipitation of .01 inch or more, 69 cities including Honolulu, 1951-1985	113	100	52
Average percentage of possible sunshine, 69 cities including Honolulu, 1951-1985	59	67	9
Average wind speed, 69 cities including Honolulu, 1951-1985 (miles per hour)	9.4	11.6	7
Land owned by federal government, percent of total land area, 1985	32.0	17.3	14
Urban land acreage per capita, 1980	0.28	0.21	46

X Not applicable.

Table 736.-- RECREATION, TOURISM, AND ELECTIONS

Subject	United States	Hawaii	
		Number	Rank
Foreign visitor arrivals, 1983 (1,000)	21,707	1,423	5
Visitor expenditures, 1984 (million dollars)	411,350	4,620	27
Foreign visitor expenditures, 1983 (milllion dollars)	13,772	1,172	4
Economic impact of foreign visitors, 1983:			
Payroll (million dollars)	3,066	305	4
Employment	312,800	28,800	4
Tax revenues (million dollars)	1,647	127	4
Domestic visitor expenditures, 1984 (million dollars)	222,955	2,517	27
Economic impact of domestic visitors, 1984:			
Business receipts (million dollars)	215,978	2,445	27
Payroll (million dollars)	47,195	605	24
Employment (1,000)	4,493.0	52.6	28
Tax revenues (million dollars)	27,450	252	28
State travel budgets, 50 States, FY 1986-1987 ($1,000)	234,170	8,464	8
National Park System acreage, FY 1984 (1,000 acres)	74,898	245	17
State parks and recreation acreage, 50 States, FY 1985 (1,000 acres)	10,128	25	46
Fishing characteristics of persons 16 years old and over, by State where activity occurred, 1980:			
Fishing participants (1,000)	42,059	244	43
Days of participation (million days)	848.9	3.3	45
Expenditures for travel, food, lodging, and fees (million dollars)	7,117	50	40
Hunting characteristics of persons 16 years old and over, by State where activity occurred, 1980:			
Hunting participants (1,000)	17,444	28	50
Days of participation (1,000 days)	329,517	342	50
Expenditures for travel, food, lodging, and fees (million dollars)	2,349	4	49
Passports issued, 1983 (1,000)	4,121.5	37.6	27
Per capita State appropriations for State arts agencies, 1986 (dollars)	0.85	2.09	5
Voting-age population, 1986 (1,000)	178,335	782	39
Popular vote cast for President, 1984 (1,000)	92,653	336	43
Vote cast, percent of voting-age population	53.1	44.3	47
Percent voting for Republican party	58.8	55.1	41
Vote cast for governor, 50 States, 1984 or 1982 (1,000)	(NA)	312	45
Percent voting for Democratic party	(NA)	45.2	41
Number of local governments, 1982	82,290	18	50

NA Not available.

Table 737.-- GOVERNMENT FINANCES AND EMPLOYMENT AND NATIONAL DEFENSE

[Fiscal year data unless otherwise specified]

Subject	United States	Hawaii	
		Number	Rank
Revenues of State & local governments, 1985 (mil. dol.)	719,686	3,326	40
Revenues per capita (dollars)	3,015	3,155	16
Tax collections per capita (dollars)	1,465	1,652	9
Expend. of State and local governments, 1985 (mil. dol.)	658,152	3,201	40
Expenditures per capita (dollars)	2,757	3,037	10
State and local government debt outstanding, 1985 (million dollars)	571,351	3,055	42
Debt outstanding per capita (dollars)	2,393	2,898	17
State gov't. tax revenues, 50 States, 1986 (mil. dol.)	228,054	1,491	36
Revenues per capita (dollars)	948	1,404	3
State tax revenues per capita, selected taxes of 50 States, 1986 (million dollars):			
State general sales	311	703	1
Individual income	281	440	7
State general sales tax rate (exc. local sales tax), September 1, 1985 (percent)	(NA)	4	27
Property taxes per capita, 1985 (dollars)	435	293	37
Residential property tax, 51 cities inc. Honolulu, 1985:			
Effective tax rate per $100	(NA)	0.61	50
Assessment level (percent)	(NA)	90	15
State and local government employment, Oct. 1985 (1,000)	13,669	60	40
Full-time employment per 10,000 population	443	453	24
Monthly earnings of full-time employees (dollars)	1,885	1,816	22
Federal government direct expenditures, 1986 (mil. dol.)	830,259	4,643	13
Defense expenditures (million dollars)	229,870	2,486	27
Nondefense expenditures (million dollars)	600,389	2,158	45
Per capita Federal expenditures, 1986 (dollars)	3,392	4,372	6
Defense expenditure (dollars)	939	2,341	3
Nondefense expenditure (dollars)	2,453	2,032	47
Federal individual income and employment tax receipts, 50 States, 1985 (million dollars)	621,874	1,877	43
Tax burden, percent of personal income	18.8	12.9	38
No. of Fed. individual income tax returns, 1985 (1,000)	102,037	471	40
Taxes paid per return with tax liability (dollars)	3,901	3,249	33
Defense contract awards, 1985 (million dollars)	140,096	626	33
Federal civilian employment, December 31, 1984 (1,000)	2,771	27	29
Per 10,000 population	117.2	260.4	5
Department of Defense employment, 1985:			
Civilian employees (1,000)	976.2	21.3	15
Military personnel (1,000)	1,366.9	47.0	7
Living veterans, September 1985 (1,000)	27,732	102	44
Retired military personnel, September 30, 1986 (1,000)	1,533.4	11.5	34

NA Not available.

Table 738.-- SOCIAL INSURANCE, HUMAN SERVICES, LABOR FORCE, EMPLOYMENT, AND EARNINGS

Subject	United States	Hawaii	
		Number	Rank
Payments for Aid to Families with Dependent Children, 1984 (million dollars)	14,432	82	29
Payments for Supplemental Security Income, 1985 (million dollars)	10,748	30.5	39
Public aid recipients, percent of population, 1985	6.2	5.8	23
Food stamp recipients per 1,000 population, 1985	80.2	91.1	16
Social Security recipients per 1,000 population, 1985	151	122	45
Aid to Families with Dependent Children, percent of persons under 18 years, 1984	11.2	12.2	12
Quality of life score, 329 areas inc. Honolulu, 1985	(NA)	1,133	61
Civilian labor force, 1985 (1,000)	115,461	481	42
Civilian employment, 1985 (1,000)	107,150	454	43
Percent change, 1980-1985	7.9	8.9	22
Civilian employment, pct. of civilian noninstitutional persons 16 years old and over, 1985	60.1	61.8	22
Unemployed persons, 1985 (1,000)	8,312	27	42
Unemployment rate, pct. of civilian labor force, 1985	7.2	5.6	38
Male unemployment rate	7.0	5.0	41
Female unemployment rate	7.4	6.3	34
Labor force participation rate, pct. of civilian noninstitutional persons 16 years old and over, 1985	64.8	65.5	30
Male labor force participation rate	76.3	72.6	47
Female labor force participation rate	54.5	59.1	9
Nonagricultural employment, 1985 (1,000)	97,614	423	43
Percent manufacturing	19.8	5.2	47
Percent services	22.5	26.0	5
Percent government	16.8	22.0	10
Percent change, 1980-1985	8.0	4.5	30
Civilian employment, selected occupations, 1985:			
Percent managerial and professional occupations	24.1	24.7	15
Percent service occupations	13.5	18.9	3
Percent sales occupations	11.8	12.9	5
Average annual pay, workers covered by State unemployment compensation, 1984 (dollars)	18,350	16,671	31
Ave. annual wages, selected industries, 1983 (dol.):			
Construction	20,492	25,443	2
Manufacturing	21,469	16,632	47
Retail trade	10,007	9,791	21
Services	15,351	14,137	25
Workers' compensation payments, 1984 (million dollars)	19,529	114.8	35
Labor union membership, 1982 (1,000)	19,571	126	32
Percent of nonagriculture employed	21.9	31.5	5

NA Not available.

Table 739.-- INCOME, EXPENDITURES, WEALTH, AND PRICES

Subject	United States	Hawaii	
		Number	Rank
Gross state product, 1977 (million dollars)	(X)	8,578	39
Percent change in personal income, 1985-1986	5.3	7.2	7
Per capita personal income, 1986 (dollars)	14,461	14,691	16
Projected per capita personal income, 2000 (1972 dol.)	7,369	7,461	18
Percent change in farm earnings, 50 States, 1983-1984	68.4	12.9	34
Median income, 1979 (dollars):			
Families	19,917	22,750	5
Households	16,841	20,473	2
Median family income, FY 1987 (dollars)	30,400	32,900	8
Persons below U.S. poverty threshold, percent of non-institutional population 16 years and older, 1979	12.4	9.9	40
Families below U.S. poverty threshold, percent of non-institutional population 16 years and older, 1979	9.6	7.8	33
Millionaires per 100,000 population, 50 States, 1982	175.9	80.2	43
Average household income before taxes, 26 MSAs inc. Honolulu MSA, 1982-1983 (dollars)	22,702	27,937	5
Average household expenditures, 26 MSAs inc. Honolulu MSA, 1982-1983 (dollars)	18,892	22,247	6
Effective buying income, 1985 (million dollars)	2,800.3	12.7	38
Effective buying income per household (dollars)	31,674	37,952	4
Effective buying income per capita (dollars)	11,627	11,832	19
Percent change in consumer price index for all urban consumers (CPI-U), 28 areas including Honolulu MSA:			
1985 to 1986	1.9	2.4	10
1967 to 1986	228.4	201.1	26
Retail food prices for a "market basket", 17 cities including Honolulu, June 4, 1987 (dollars)	51.98	65.83	1
Comparative annual living costs for a four-person, higher-income family, 100 urban areas including Honolulu, 1987 (dollars)	50,000	57,252	6
Four-person family budgets, 25 areas including Honolulu MSA, Autumn 1981 (dollars):			
Lower budget	15,323	20,319	2
Intermediate budget	25,407	31,893	1
Higher budget	38,060	50,317	1
Sales and Marketing Management Magazine's "Buying Power Index," 1985 (percent of U.S.)	100	0.459	40

X Not applicable.

Table 740.-- BANKING, INSURANCE, BUSINESS ENTERPRISE, AND COMMUNICATIONS

Subject	United States	Hawaii	
		Number	Rank
Total deposits of insured banks, insured savings institutions, mutual savings banks, and credit unions, 1985 (billion dollars)	2,905.3	13.2	37
Commercial bank deposits, end of 1985 (billion dollars)	1,786.3	8.0	41
Per capita deposits (dollars)	7,482	7,552	17
Savings and loan deposits, end of 1985 (billion dollars)	841.0	2.7	38
Equity capital in commercial banks per capita, 50 States, 1983 ($1,000)	606.4	483.0	26
Bank loans-to-equity ratios, 50 States, June 1986	(NA)	5.9	11
Venture capital funds per capita, 50 States, 1985 (dol.)	39.2	1.4	33
Dividends, int., and rent income per capita, 1985 (dol.)	2,347	2,050	33
Shareowners of public corporations, mid-1985 (1,000)	47,040	256	36
Percent of household population	20.1	24.8	7
Life insurance in force per family, 1985 (dollars)	63,400	75,600	5
Private nonfarm establishments, 1984 (1,000)	5,517.7	25.7	40
Percent with 100 employees or more	2.0	1.6	34
Percent with fewer than ten employees	76.2	75.0	46
New business incorporations, 1985 (1,000)	668.9	3.0	39
Fast-growth companies, percent of businesses, 50 States, 1987	(NA)	2.88	11
Presence of Fortune 1000 corporate headquarters per million residents, 50 States, 1985	(NA)	3.80	16
Women-owned businesses, percent of female labor force, 50 States, 1982	(NA)	9.8	15
Business failures, industrial and commercial firms (exc. real estate and finance companies), 1985	29,269	246	39
Inc.'s "Report on the States" ranking of State economies, 50 States, 1987 (total score=100)	48.18	51.39	20
The Corp. for Enterprise Development's "Development Report Card," 50 States, 1986 (grades of A through F):			
Performance Index	(NA)	A	10
Business Vitality Index	(NA)	D	32
Capacity Index	(NA)	B	16
Policy Index	(NA)	C	23
The Corporation for Enterprise Development's "Business Climate Tax Index," 50 States, January 1987	(NA)	9	5
Telephone access lines, December 31, 1986 (1,000)	122,203	478	43
Percent of housing units with telephones, 1980	93.0	95.1	15
Commercial radio stations, January 10, 1985	8,354	39	47
Commercial television stations, January 10, 1985	887	13	28
Cable TV households, pct. of TV households, July 1985	45.1	65.1	2
Daily newspaper circulation per capita, 1985	0.26	0.23	26

NA Not available.

Table 741.-- ENERGY, SCIENCE, AND TRANSPORTATION

Subject	United States	Hawaii	
		Number	Rank
Energy consumption per capita, 1984 (million Btu.)	313	225	44
Energy expenditures per capita, 1983 (dollars)	1,728	1,940	10
Energy expenditures, percent of personal income, 1981	18.9	19.9	21
Average price for fuels and electricity, 1981 (dollars per million Btu.)	7.86	11.78	1
Electricity consumed per residential customer, 1983 (kilowatt-hours)	8,740	6,571	42
Average revenues of electricity sold for residential use, 1983 (cents per kilowatt-hour)	6.83	11.29	1
Price of gas utility for residential use, 1983 (dollars per million Btu.)	5.88	17.94	1
Federal obligations for research and development per capita 1985 (dollars)	(NA)	55	34
Research and development expenditures in universities per capita, 50 States, 1984 (dollars)	31.3	43.6	9
State and local government research and development in universities per capita, 50 States, 1984 (dollars)	2.5	14.4	2
Industry research and development in universities per capita, 50 States, 1984 (dollars)	1.4	0.3	49
Scientists and engineers per 100,000 population, 1982	1,403	1,344	23
Doctoral degrees in science and engineering per 100,000 population, 50 States, 1985	(NA)	101	10
Patents issued to U.S. residents, 1963-1985 (1,000)	1,009.8	0.7	49
Highway mileage, December 31, 1984 (1,000 miles)	3,892	4.0	50
Licensed drivers per 1,000 population, 1983	659.0	564.8	49
Motor vehicle registrations per 1,000 population, 1985	713	628	47
Accident deaths per 100,000 population, 1983	19.1	14.3	44
Commuting to work, 1980:			
Percent of workers using public transportation	6.4	8.3	7
Percent of workers using private transportation	84.1	78.5	45
Mean travel time to work (minutes)	21.6	21.5	13
Ave. price for gasoline, 28 areas inc. Honolulu MSA, December 1986 (cents per gallon)	83.0	107.5	1
State gasoline tax, August 1985 (cents per gallon)	12.40	11.0	34
Airport facilities, 1983	15,966	51	48
Air operations (takeoffs and landings), 1983 (1,000)	53,445	708	26
Air passengers, 1983 (1,000)	301,348	8,291	10
Air freight and mail, 1983 (1,000 tons)	3,785.7	111.8	10
General aviation, active aircraft, 1983	213,293	381	50
Active pilots, 1983	699,546	3,224	44
Numbered vessels (State-registered), 1986 (1,000)	9,848.8	13.4	49
Boating accidents, 1986	6,387	54	35

NA Not available.

Table 742.-- AGRICULTURE, FOREST, FISHERIES, AND MINING

[Ranking among 50 states; mining in Hawaii consists of quarry and cement products industries]

Subject	United States	Hawaii	
		Number	Rank
Farm population, percent of total population, 1980	2.48	0.47	45
Farms, 1986 (1,000)	2,214	4	44
Land in farms, 1986 (million acres)	1,007	2	41
Acreage per farm, 1986 (acres)	455	500	15
Acreage, individual or family farms, pct. of farms, 1982	65.1	24.6	49
Value of farm land and buildings, 1982 (million dollars)	774,158	3,575	39
Average value per farm ($1,000)	345.9	778.5	3
Average value per acre (dollars)	784	1,826	9
Value of products sold per farm, 1982 ($1,000)	58.9	121.6	3
Farm debt-to-asset ratio, 1985 (percent)	23.6	7.1	50
Net farm income-to-debt ratio, 1985 (percent)	21.5	51.3	3
Acreage in harvested crop, 1982 (1,000 acres)	326,306	156	48
Vegetables	3,330.6	4.7	39
Sugarcane, for sugar	713.1	89.7	3
Pineapple	23.1	23.1	1
Macadamia nuts	15.7	15.5	1
Bananas	1.1	1.1	1
Value of farm marketings, 1985 (million dollars)	142,103	540	40
Crops	72,702	458	34
Livestock and products	69,401	83	47
Volume of crop marketings, 1982:			
Sugarcane, for sugar (1,000 tons)	27,902	8,950	2
Pineapple, harvested (tons)	627	627	1
Macadamia nuts (1,000 pounds)	35,648	35,595	1
Taro (1,000 pounds)	6,386	3,360	1
Coffee, parchment (1,000 pounds)	1,806	1,806	1
Value of sales of livestock, poultry, and their products, 1982 (million dollars)	69,644	103	47
Cattle and calves	31,635	45	41
Dairy products	16,320	24	45
Poultry and poultry products	9,797	22	39
Hogs and pigs	9,868	9	36
Forest land, 1977 (1,000 acres)	736,558	1,986	41
Commercial timberland, 1977 (1,000 acres)	482,486	948	45
Sawtimber net volume, 1977 (trillion board feet)	2,578.9	1.0	48
Commercial fish catch, 1985 (million pounds)	6,258	17	19
Value of fish catch, 1985 (million dollars)	2,326	22	17
Value of mineral shipments & receipts, 1982 (mil. dol.)	250,000	13	47
Mineral production value, 1984 (million dollars)	179,176	51	45
Value added in mining 1982 (million dollars)	188,056	10	47
Mineral industry employees, 1982 (1,000)	1,114.0	0.2	49

Table 743.-- CONSTRUCTION, HOUSING, AND MANUFACTURES

Subject	United States	Hawaii	
		Number	Rank
Private housing units started, 1985, prel. (1,000)	1,736.3	6.6	38
Percent change, 1984-1985	-0.8	24.5	4
Private housing units authorized by building permits, 1985 (1,000)	1,733.3	7.3	38
Valuation of units authorized (million dollars)	84,904	489	35
Value of construction contracts, 1985 (mil. dol.)	227,650	871	42
Construction industry establishments, 1982 (1,000)	1,389.3	4.3	49
With payroll	456.7	1.9	45
Construction business receipts, 1982 (mil. dol.)	365,421	2,032	37
Value added in construction, 1982 (million dollars)	145,965	855	37
Construction industry employees, 1982 (1,000)	4,275.1	18.7	41
Construction workers	3,453.2	14.0	42
Average payroll per employee (dollars)	18,401	21,949	5
Housing units, 1980 (1,000)	88,411	334	43
Percent change in housing units, 1970-1980	28.7	54.4	9
Year-round housing units, 1980 (1,000)	86,693	332	43
One unit at address (percent)	66.0	51.7	49
Five or more units at address	17.9	38.1	2
Median rooms per unit	5.1	4.4	50
Percent vacant	7.3	11.5	3
Occupied year-round housing units, 1980 (1,000)	80,390	294	43
With 1.01 or more persons per room (percent)	4.5	15.3	1
Percent owner-occupied units	64.4	51.7	49
Condominium housing, 1980 (1,000)	2,253	74	6
Percent of total housing units	2.5	22.2	1
Median value of owner-occupied units (dollars)	59,100	99,000	1
Median value of owner-occupied units, 1980 ($1,000)	47.2	118.1	1
Median monthly homeowner costs, 1980 (dollars)	365	463	2
Median monthly rent of renter-occupied units, 1980 (dollars)	243	311	2
Air-conditioning in homes, percent of year-round housing units, 1980	55.0	18.1	47
Manufacturing establishments, 1982	358,061	966	44
Value of manufacturing shipments, 1984 (bil. dol.)	2,253.7	3.4	46
Value added by manufacture, 1984 (million dollars)	983,560	1,046	46
Value added by manufacture, 1982 (million dollars)	824,118	1,120	44
Average per establishment ($1,000)	2,302	1,158	46
Average per employee (dollars)	43,161	47,441	9
Manufacturers' inventories, end of 1982 (mil. dol.)	306,137	446	45
New capital investment, manufacturing, 1983 (mil. dol.)	61,924	61	48
Average per production worker (dollars)	5,081	4,067	39
Manufacturing employees, 1984 (1,000)	19,137	23	46
Production workers	12,581	16	46
Ave. payroll per manufacturing employee, 1982 (dollars)	19,882	15,271	47
Average per production worker	16,514	13,594	43

Table 744.-- DOMESTIC TRADE, SERVICES, AND FOREIGN AND INTERSTATE COMMERCE

Subject	United States	Hawaii	
		Number	Rank
Retail sales, 1985 (billion dollars)	1,395.2	6.7	41
Sales per household (dollars)	15,782	20,009	3
Sales per capita (dollars)	5,844	6,341	15
Retail trade establishments, 1982 (1,000)	1,923.2	8.9	42
Retail sales, selected businesses, 1985 (mil. dol.):			
Automotive dealers	304,006	896	47
Food stores	288,855	1,282	41
General merchandise stores	163,840	843	38
Eating and drinking places	134,212	1,172	31
Gasoline service stations	106,067	410	45
Apparel and accessories stores	71,818	555	32
Retail trade employees, 1982 (1,000)	14,468	82	38
Retail trade annual payroll, 1982 (million dollars)	123,619	696	38
Restaurant Business' "Restaurant Activity Index," 1986	100	189	2
Restaurant Business' "Restaurant Growth Index," 1986	100	171	2
Beer consumption per capita, 1983 (gallons)	34.46	41.12	9
Wholesale trade establishments, 1982	415,829	1,737	42
Wholesale trade employees, 1982 (1,000)	4,984.9	17.2	42
Service establishments, 1982 (1,000)	1,261.7	6.1	40
Receipts of service establishments with payroll and subject to Federal income tax, 1982 (mil. dol.)	426,982	2,660	34
Receipts per service establishment ($1,000)	338.4	434.3	4
Receipts of service ests., selected businesses, 1982:			
Business services (million dollars)	106,866	314	38
Health services (million dollars)	95,610	420	38
Legal services (million dollars)	34,325	173	34
Hotels, motels, and other lodging places (mil. dol.)	33,215	973	9
Automotive repair, services, and garages (mil. dol.)	30,695	249	32
Service industry employees, 1982 (1,000)	11,106	71	34
Service industry annual payroll, 1982 (million dollars)	158,625	904	34
Population per travel agency, including P.R., 1983	(NA)	3,227	52
Motion pictures industry, ests. with payroll, 1982:			
Production, distribution, and service ests.	7,905	15	34
Receipts (million dollars)	10,117	4	40
Theaters	9,344	34	47
Foreign-owned business establishments, 1982	48,074	276	34
Percent of total establishments	1.04	1.27	8
Foreign direct investment (nonbank affiliates), inc. U.S. terr. and poss., and offshore sites, 1985:			
Gross book value (million dollars)	293,590	1,771	37
Employment (1,000)	2,854	19	33
Japanese owned	209	11	5
Land owned (1,000 acres)	14,584	50	38

NA Not available.

BIBLIOGRAPHY

This volume is the 21st in a series published by the Hawaii State Department of Business and Economic Development and its predecessor agencies. The first was Statistical Abstract of Hawaii, 1962, issued by the Department of Planning and Research in 1962. After a four-year hiatus, updated versions titled The State of Hawaii Data Book were published by the Department of Planning and Economic Development in 1967, 1968, and annually beginning in 1970. The 1987 edition is the first one issued under the new name of the department. All of the volumes issued before 1984 are now out of print, but copies can be consulted in the DBED Library, Hawaii State Library, University of Hawaii and community college libraries, and other collections throughout the State.

Additional information regarding specific statistical sources can be found in the introductory statements to each section of the Data Book, in footnotes and source references to the various tables, and in the underlying reports.

Although most of the series in the Data Book are shown only for recent years, earlier figures can usually be found in Historical Statistics of Hawaii, by Robert C. Schmitt. This book, published by the University Press of Hawaii in 1977, contains 711 pages of narrative and tables on the development of statistics in Hawaii since the 18th century. Copies are available from the University of Hawaii Press and various book stores for $30.00.

Privately published works of general statistical reference include Hawaii Facts and Figures 1987, sold by the Chamber of Commerce of Hawaii at $3.00 per copy, and All About Business in Hawaii 1987, published by Crossroads Press, Inc., at $3.95.

Two of the four counties have produced statistical abstracts. In 1987, the Kauai County Office of Economic Development issued Kauai, Island of Opportunity, Facts and Figures, 1986. The Hawaii County Department of Research and Development has published County of Hawaii Data Book 1980, now out of print.

Persons interested in data for other States or the nation as a whole should consult the Statistical Abstract of the United States and its companion volumes, the State and Metropolitan Area Data Book and County and City Data Book. The Abstract is an annual publication of the U.S. Bureau of the Census, initiated in 1878. The current edition is the 107th, dated 1987; copies are available for $29.00 (cloth) or $22.00 (paper) from the Superintendent of Documents, U.S. Government Printing Office, Washington, D. C. 20402. The State and Metropolitan Area Data Book, 1986, also available from GPO, costs $28.00. The County and City Data Book, 1983 is sold by the same agency for $24.00. All three volumes are on the shelves of major libraries.

Table A.-- PRINTING HISTORY OF THE STATE OF HAWAII DATA BOOK: 1962 TO 1986

Edition	Number of pages	Number of tables	Price (dollars)		Printing costs (dollars)	Number of copies printed
			Hawaii	Outside State		
1962 1/	128	243	1.00	1.00	(NA)	(NA)
1967	66	95	(NA)	(NA)	1,969.45	3,000
1968	69	99	1.00	1.00	2,969.20	3,000
1970	136	135	1.00	1.00	2,470.92	2,030
1971	159	152	2.00	2.00	4,149.60	2,000
1972 2/	227	210	4.00	5.00	6,245.00	3,000
1973	290	262	4.00	5.00	6,309.00	1,500
1974	306	292	4.00	5.00	9,330.00	2,000
1975	302	309	4.00	5.00	10,222.95	2,000
1976	312	335	4.00	5.00	9,901.13	2,000
1977	339	374	4.00	5.00	11,990.00	2,000
1978	379	425	4.00	5.00	8,900.00	2,000
1979	447	407	4.00	5.00	10,744.00	2,500
1980	545	496	5.00	10.00	12,335.00	2,500
1981	603	563	5.00	10.00	14,910.00	3,000
1982	596	566	5.00	10.00	15,633.00	3,000
1983	663	622	5.00	10.00	15,875.00	2,500
1984	762	724	5.00	15.00	32,003.00	3,000
1985	662	680	5.00	15.00	19,995.00	3,000
1986	705	721	5.00	15.00	19,980.00	3,000

NA Not available.

1/ The 1962 edition was titled Statistical Abstract of Hawaii, 1962. In addition, a 41-page, 57-table supplement, Historical Statistics of Hawaii, 1778-1962, was published and distributed without extra charge to persons receiving the regular edition.

2/ A 19-page supplement, State of Hawaii Census Tract Maps and Directory of Hawaii Map Sources, was included with each copy of the regular edition, and was not sold separately.

Source: DBED records.

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P.O. Box 2359, Honolulu, Hawaii 96804
Walk in address: 250 South King Street, 7th Floor